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*Missouri

ABSTRACT

The purpose of this study was to design an information system for the Missouri Commission on Higher Education that would provide timely information for planning to meet the higher education needs in the state. The system provides planning and information reports, divided into the following subsystems: student information; program information; financial information; personnel information; and facilities information. This system would provide current information and longer term projections for both public and private higher education institutions, including junior colleges, four year colleges and universities. In addition, selected data would be provided on higher education in states surrounding Missouri. (AF)

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MISSOURI COMMISSION ON HIGHER **EDUCATION**

SPECIFICATIONS FOR A HIGHER EDUCATION INFORMATION SYSTEM

September 1968

U.S. DEPARTMENT OF HEALTH, EDUCATION

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MISSOURI COMMISSION ON HIGHER EDUCATION

SPECIFICATIONS FOR A HIGHER EDUCATION INFORMATION SYSTEM

TABLE OF CONTENTS

| <u>Chapter</u> | |
|----------------|-------------------------------------------|
| I | INTRODUCTION AND CONCEPTUAL FRAMEWORK |
| II | STUDENT INFORMATION SUBSYSTEM |
| Ш | PROGRAM INFORMATION SUBSYSTEM |
| IV | FINANCIAL INFORMATION SUBSYSTEM |
| v | PERSONNEL INFORMATION SUBSYSTEM |
| VI | FACILITIES INFORMATION SUBSYSTEM |
| VII | MANAGEMENT INFORMATION SYSTEM DEFINITIONS |
| VIII | PLAN OF ACTION |



I - INTRODUCTION AND CONCEPTUAL FRAMEWORK

I - INTRODUCTION AND CONCEPTUAL FRAMEWORK

This report describes the proposed management information system which was designed to serve the information needs of the Missouri Commission on Higher Education. The system provides planning and information reports, divided into the following subsystems:

- Student information
- Program information
- Financial information
- Personnel information
- Facilities information.

The basic purpose of the study was to design an information system that would provide timely information for planning to meet the higher education needs of the State of Missouri. This system would provide current information and longer-term projections for both public and private higher education institutions, including junior colleges, four-year colleges and universities. In addition, selected data would be provided on higher education in states surrounding Missouri.

APPROACH

The study included a review of the role and scope of the Commission's functions by examination of available documents and interviews with key Commission personnel. Data currently being collected by the Commission were studied in detail; an assessment was made of the Higher Education General Information Survey (HEGIS) reports; and interviews were held with key officials in the Office of Education of the Department of Health, Education and Welfare. Selected public and private higher education institutions were visited, and their internal information systems for students, programs, finances, personnel and facilities were studied.



As the study progressed, a total systems approach was developed to ensure consideration of sources, types of input data, required output reports and information uses. From this, an information framework was designed, including report elements and criteria. This framework was then reviewed with the Executive Secretary of the Commission and his staff to confirm that information needs were satisfied.

Individual subsystems were then constructed for the functional areas of students, programs, finances, personnel and facilities. Each subsystem consisted of flow charts, planning reports, information reports and record layouts. The subsystems were also reviewed with the Executive Secretary and his functional department heads. A series of visual presentations and discussions were then held with appropriate officials of public and private colleges and universities. Comments were solicited and revisions made to the subsystems as required.

Each subsystem was then integrated into the total systems approach, and a plan for implementation was developed.

CONCEPTUAL FRAMEWORK

As noted, the system was designed to serve the information needs of the Commission, Executive Secretary, and the functional department heads. The types and sources of data considered necessary to satisfy these needs are described in Exhibit I-1 and I-2, following.

Uses Of Information

After determining the needs of the recipients, an analysis was made of the uses of this information. These uses are broadly classified as follows:

- Furnishing of regular reports showing

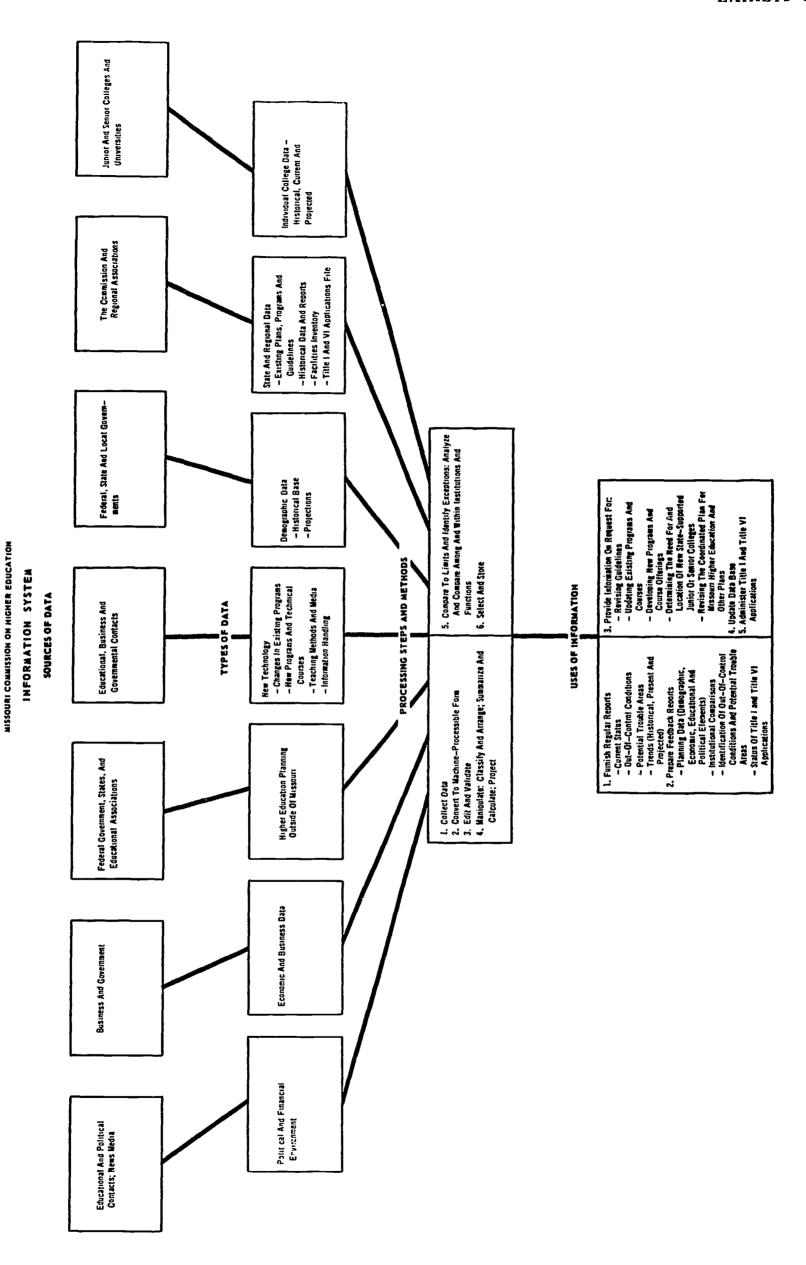
Current status

Out-of-control conditions

Potential trouble areas

Trends (historical, present and projected data)





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TYPES AND SOURCES OF DATA

| TAbe |
|------|
|------|

Source

Political and financial environment

Educational and political contacts; news media

Economic and business data

Business and government

Higher education planning outside of Missouri

State and federal governments and educational associations

New technology

- Changes in existing programs

Educational, business and

- New programs and technical courses

- Teaching methods and media

- Information handling

governmental contacts

Demographic data

- Historical base

- Projections

State, federal and local governments

State and regional data

- Existing plans, programs and guidelines

- Historical data and reports

- Facilities inventory

- Title I and VI applications file

The Commission and regional associations

Junior and senior colleges and

universities

Individual college data - historical, current and projected



- Preparation of feedback reports including

Planning data (demographic, economic, educational and political

Institutional comparisons

Identification of out-of-control conditions and potential trouble areas

Status of Title I and Title VI applications

- Furnishing of information on request for

Revising guidelines (budget, teaching load, facilities)

Updating existing programs and courses

Developing new programs and course offerings

Determining the need for, and location of, new State-supported junior or senior colleges

Revising the coordinated plan for Missouri higher education, and other plans as required

- Updating of the data base
- Administration of Title I and Title VI applications.

Processing Steps

The following steps in processing, required to produce the reports and information listed above, were determined:

- Collect data
- Convert to machine processible form
- Edit and validate

- Manipulate

Classify and arrange

Summarize and calculate

Project

Compare to limits and identify exceptions

Analyze and compare among and within institutions and functions

- Select and store.

Input Form

The system has been designed to permit input in a variety of modes, in order to accommodate varying sizes of institutions and classes of individual institution mechanization capability. Input will be accepted in manual form, on punched cards, on disks or on magnetic tape.

Prime information will be requested in four subsystems, to provide the Commission with maximum flexibility and to minimize individual institution effort in processing data. Individual records will be requested for students, course sections, full-time faculty members, buildings and rooms. Buildings and rooms information is currently available in machine-processible form for all institutions in Missouri.

Other input data would be collected from HEGIS reports, nonfaculty summaries, current budget reports, and surveys from other states. Preparation of the HEGIS reports for student enrollments and personnel would no longer be required of the individual institutions because the Commission would have the necessary data to prepare these reports centrally.

Data Base

The concept of a ten-year moving data base has been developed to provide the historical base for identifying trends and making projections. This base would be extended forward from the date of the system's installation - that is, no attempt would be made to go back and recreate data for previous years. Each year (after ten years), the ten-year-old data would be dropped and the current year's data added to the data base.



Report Selection

The approach to report selection was to consider initially the total number of potential reports, and reduce this to a practical number based upon recipient needs. This was accomplished through careful analysis, and the assignment of report priorities by the Executive Secretary, his staff and the study team.

To determine the variety of potential reports, the major report elements were displayed in three-dimensional figures, as shown in Exhibit I-3. The basic elements contained in reports were determined to be those of purpose, focus and form. Major subdivisions of these basic elements are shown in Exhibit I-3. Report combinations based on these first-level subdivisions would number over 200 varieties. Further subdivision of these elements would result in hundreds of additional reports. This exercise emphasized the need for selectivity in choosing necessary reports. Accordingly, matrixes were established to arrange the various report types for assignment of priority, as displayed in Exhibits I-4 and I-5. These matrixes were reviewed by the Executive Secretary, and modified where appropriate.

Report Design

After priorities were determined, the following criteria were established and used in developing and designing the reports:

- They must

Serve a need

Convey new information

Be timely enough to influence future events

Be clear and concise

Be complete enough to enable action

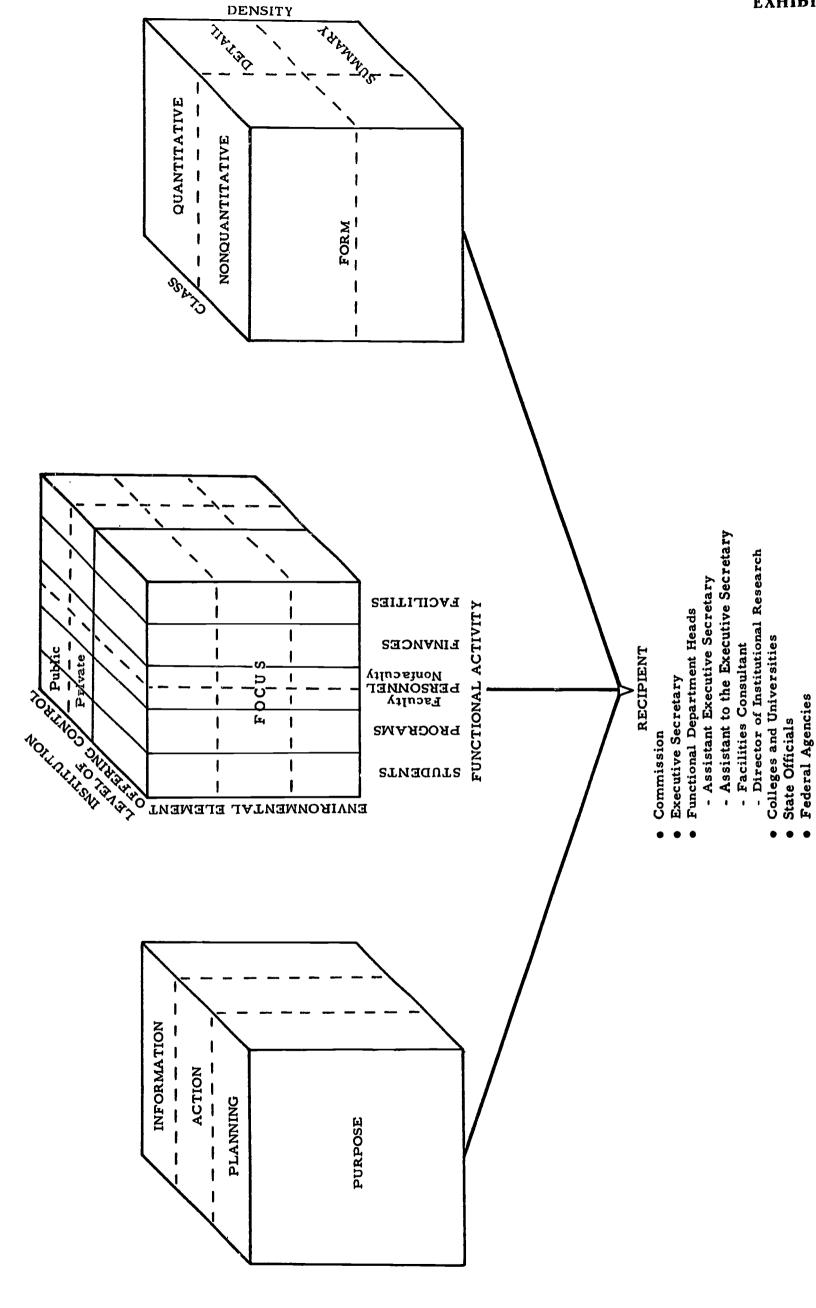
Highlight important information.

- The pyramidal concept must be embodied in the overall report design framework.
- Graphics should be employed wherever appropriate.



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REPORT ELEMENTS



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PRIORITY OF FUNCTIONAL ACTIVITY, BY PURPOSE AND RECIPIENT

| | | | | Stude | ents | F | rogr | ams | P | erso | nnel | | Fina | nce | F | acilities |
|-------------------------------------------------------------|--------|-------|---------|---------|-----------|--------|---------------|----------|--------|--------------|--------|--------|-------------|----------|--------|-----------|
| Recipient | \alpha | Z WWW | WELTION | OF ATON | AC. WHING | WE NOW | PLA TOWN TOWN | ACT WING | INESON | P. JOHNATION | ACTUME | Mellow | PL SOMETION | 4C. WING | MOLINA | NOL MODE |
| Commission | 1 | х | 1 | 2 | 2 | 1 | 1 | х | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Executive Secretary | 1 | х | 1 | 2 | 2 | 1 | 1 | х | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Functional Departmental Heads Assistant Executive Secretary | 2 | х | 1 | 3 | х | 2 | 1 | x | 1 | .1 | 1 | 1 | 2 | x | 2 | |
| Assistant To Executive Secretary | 1 | х | 1 | 2 | х | 1 | 3 | x | 3 | х | x | Ź | х | х | 2 | |
| Facilities Consultant | 3 | х | 1 | 3 | х | 1 | 3 | х | 1 | ì | х | 1 | 1 | 1 | 1 | |
| Director Of Institutional Research | 1 | х | 1 | 2 | 1 | 1 | 2 | x | 1 | 1 | х | 1 | 1 | х | 1 | |
| Colleges And Universities | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| State Officials | x | х | 1 | × | x | 1 | х | х | 1 | 1 | 1 | 1 | х | 1 | 1 | |
| Federal Agencies | x | х | 1 | х | х | 1 | х | х | 1 | 1 | 1 | 1 | х | 1 | 1 | |

PRIORITY CODE

1 - High

2 - Medium

3 - Low

X - Not needed

- The value of a report must exceed its cost.
- Exception reporting should be used where feasible.

Potential reports were then measured against these criteria. The reports selected as meeting the criteria were divided by purpose into two general groups - planning and information. Families of reports were then designed, primarily on the basis of the relative importance of individual reports.

Report headings were established in a consistent format to enable the recipients to understand and use the reports effectively. An example in the planning report series would be the use of the same heading, wherever possible, showing data from ten and five years ago, the current year, the next three years individually, and five and ten years from now. Information reports were designed to show comparative information in the same order on all reports - for instance, lists of state colleges.

Every report was designed to provide meaningful and useful information. Other available versions of the same report are listed, where applicable.

II - STUDENT INFORMATION SUBSYSTEM

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II - STUDENT INFORMATION SUBSYSTEM

This chapter describes the proposed student information subsystem. This particular subsystem is the most significant one of the five that comprise the management information system, because the data collected for this subsystem is used in each of the other four. The subsystem is focused on reports which will provide data for analysis of the present and future student population of the State. These data include student characteristics, fields of study, degrees awarded, and student attrition in both public and private higher education institutions. No attempt has been made to track individual students or classes.

Individual institutions will be required to submit input records for every student. It is not intended that the subsystem identify each student, but it is important that each student record have a unique identification number for controlling input and other purposes. Other student data, such as demographic and political information, will be furnished by the Commission.

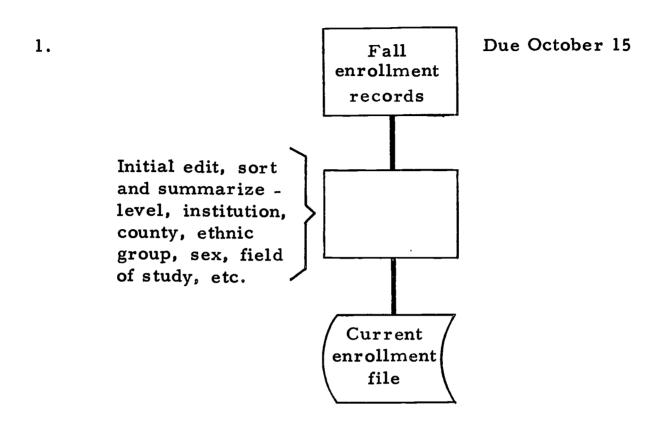
This chapter includes flow charts of the proposed subsystem describing the processing steps and the input and output requirements, planning and information report formats, and input record layouts.

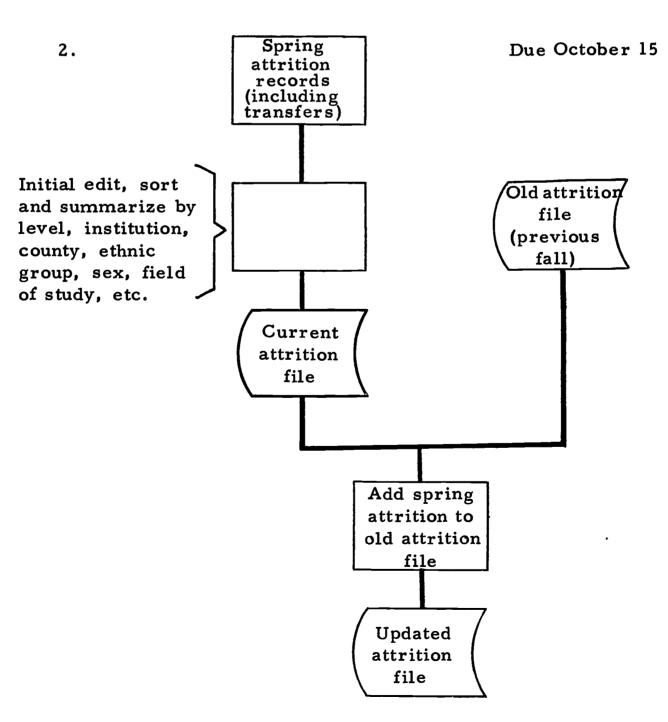


A - FLOW CHARTS

| Exhibit Number | |
|-------------------|-------------------------------------------------------------------------------|
| II-1 | Creating Initial Files Or Processing Fall Student Data |
| II-2 | Processing Spring Student Data |
| II-3 | Updating Student Enrollment, Attrition, Degree Or Demography History Files |
| II-4 | Processing Planning Reports |
| II-5 | Processing Information Reports |

CREATING INITIAL FILES OR PROCESSING FALL STUDENT DATA





Degrees by field of study for previous year (HEGIS)

Initial process and sort in same order as other data

Current degree file

Data of selective.

Data of selected high school classes and other demographic data

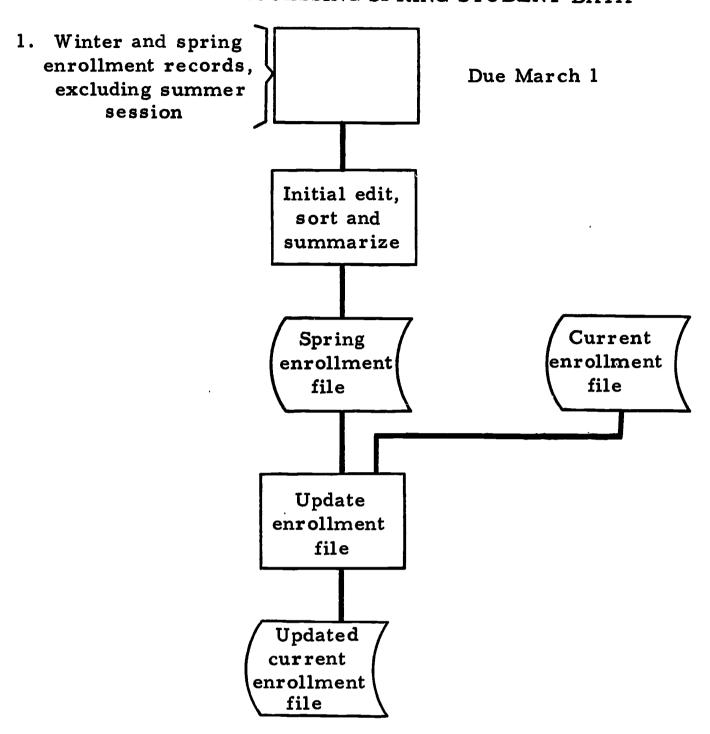
Initial process and sort in same order as other data

Current demography file

Due June 1

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PROCESSING SPRING STUDENT DATA



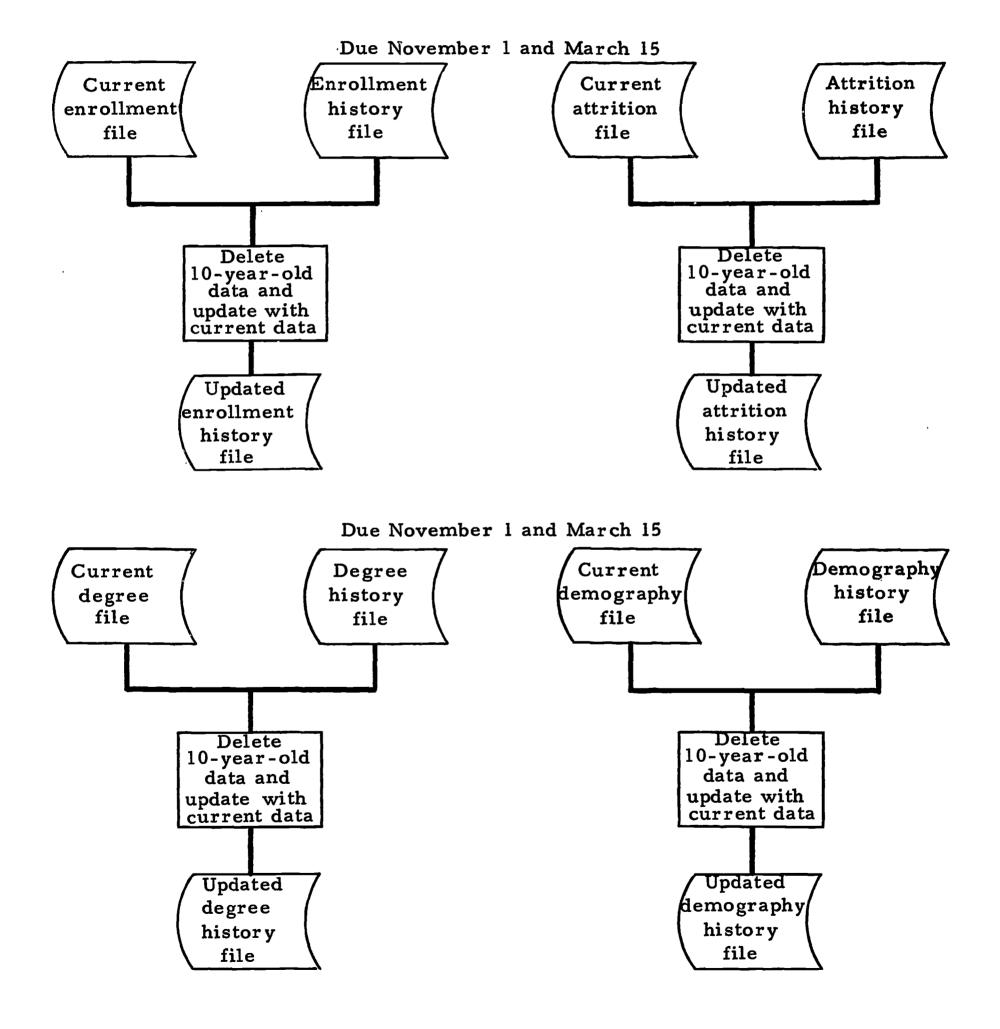
Fall and 2. Due March 1 winter attrition winter quarters records Initial edit, sort and summarize

> Current attrition file

Processing includes fall and

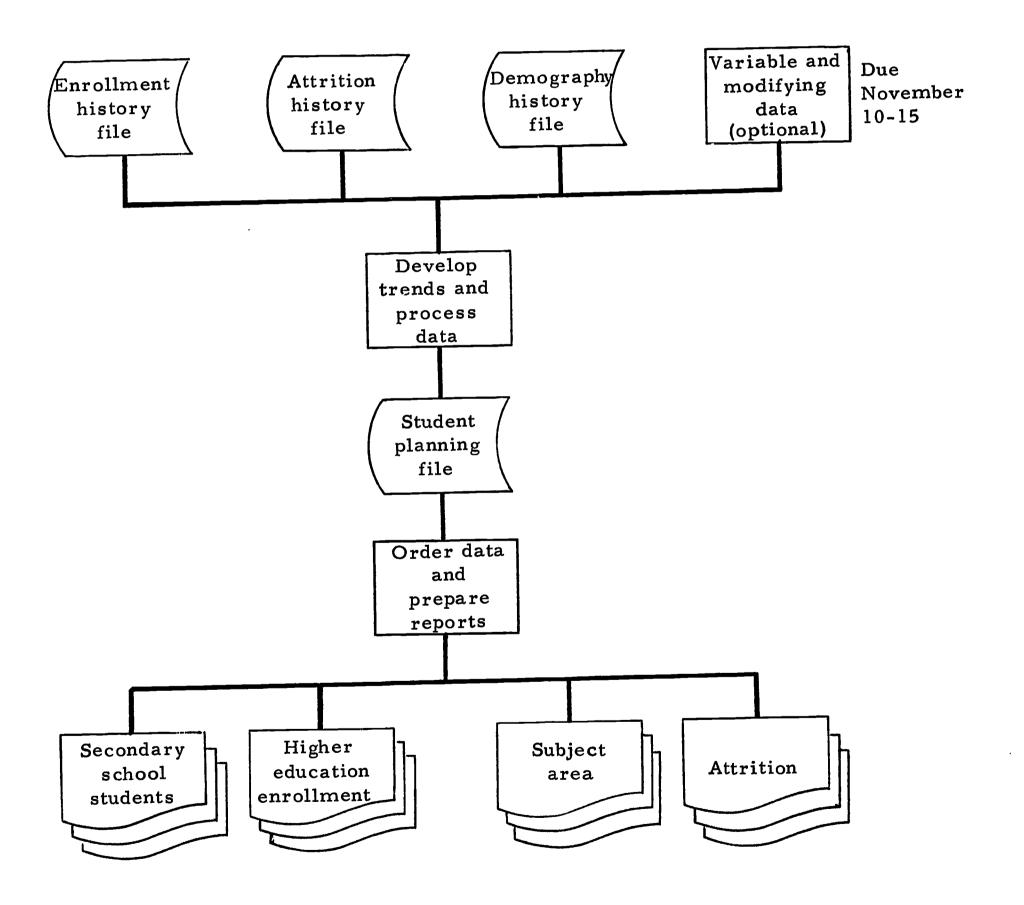


UPDATING STUDENT ENROLLMENT, ATTRITION, DEGREE OR DEMOGRAPHY HISTORY FILES



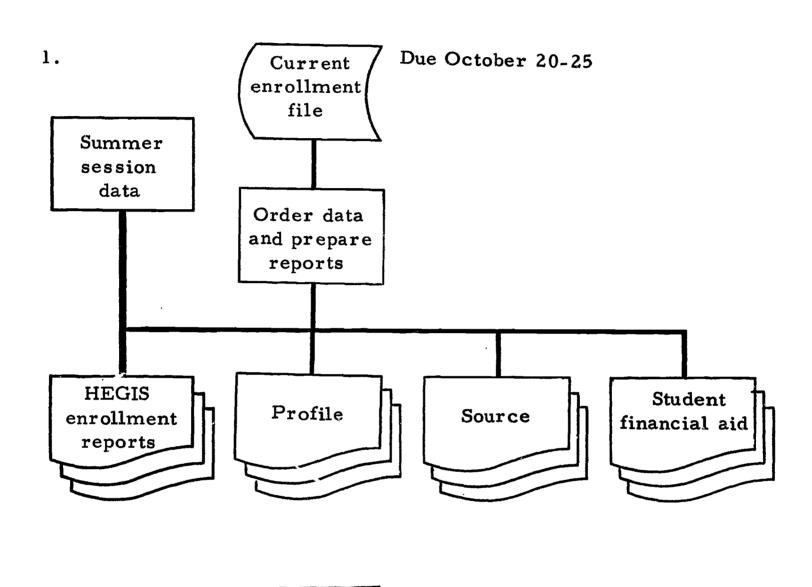


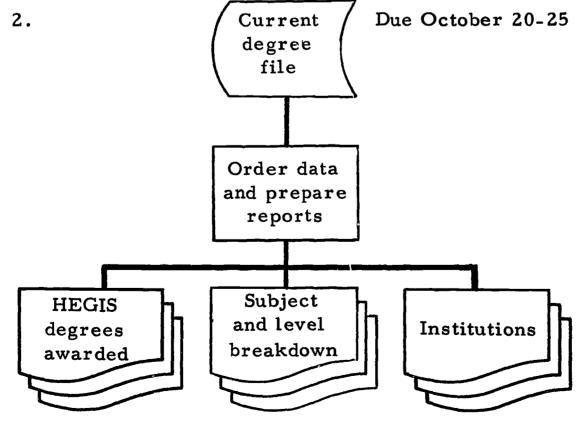
MISSOURI HIGHER EDUCATION PROCESSING PLANNING REPORTS



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MISSOURI HIGHER EDUCATION PROCESSING INFORMATION REPORTS





B - PLANNING REPORTS FOR FUTURE MISSOURI HIGHER EDUCATION

| Number | |
|--------|------------------------------------------------------|
| | Secondary School Students |
| II-6 | Secondary School Graduates |
| | Higher Education Enrollment |
| II-7 | First-Time Freshmen Enrollment, By Level Of Offering |
| II-8 | First-Time Freshmen Enrollment, By Originating Area |
| II-9 | Total Enrollment, By Level Of Offering And Control |
| II-10 | Projected Increase In FTE Students, By Program Level |
| II-11 | Percentage Of Total FTE Students, By Program Level |
| | Subject Area |
| II-12 | Enrollment, By Subject Area |
| | Attrition |
| II-13 | Student Attrition |
| II-14 | Student Input-Output Summary |



- 1

SECONDARY SCHOOL GRADUATES

(Number Of Students)

| Originating Area | Past Actual | Actual | Current | | | Projected | | |
|------------------|-------------|--------|---------|------|------|-----------|------|------|
| And Grade | 1958 | 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |

Kansas City Grade 12

le 11 Grad

Grade 10 Grade 8

Grade 3 Northern Missouri Grade 12 Grade 11

Grade 10 Grade 8 Grade 3 Central Missouri

Grade 12 Grade 11 Grade 10

Grade 8 Grade 3 St. Louis

Grade 12

Grade 11 Grade 10 Grade 8 Grade 3

Other Available Versions

Private secondary schools 1. Public secondary schools
2. Private

| Originating Area | Past Actual | Current | | Д | Projected | | |
|-----------------------|-------------|---------|------|------|-----------|------|------|
| And Grade | 1958 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |
| | - | | | | | | |
| Springfield-Joplin | | | | | | | |
| Grade 12 | | | | | | | |
| Grade 11 | | | | | | | |
| Grade 10 | | | | | | | |
| Grade 8 | | | | | | | |
| Grade 3 | | | | | | | |
| Central Ozark | | | | | | | |
| Grade 12 | | | | | | | |
| Grade 11 | | | | | | | |
| Grade 10 | | | | | | | |
| Grade 8 | | | | | | | |
| Grade 3 | | | | | | | |
| Southeastern Missouri | | | | | | | |
| Grade 12 | | | | | | | |
| Grade 11 | | | | | | | |
| Grade 10 | | | | | | | |
| Grade 8 | | | | | | | |
| Grade 3 | | | | | | | |
| Total Missouri | | | | | | | |
| Grade 12 | | | | | | | |
| Grade 11 | | | | | | | |
| Grade 10 | | | | | | | |
| Grade 8 | | | | | | | |
| Grade 3 | | | | | | | |

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\$ 1 - ·

FIRST-TIME FRESHMEN ENROLLMENT, BY LEVEL OF OFFERING (Full-Time Students Only)

| | 1978 |
|------------|-------------------|
| | 1973 |
| Projected | 1971 |
| | 1970 |
| | 1969 |
| Current | 1968 |
| Actual | 1963 |
| Past Actua | 1958 19 |
| | Level Of Offering |

Junior Colleges
High school graduates entering
college
Other first-time freshmen

Subtotal

Four-Year Colleges
High school graduates entering
college
Other first-time freshmen

Subtotal

Universities
High school graduates entering
college
Other first-time freshman

Subtotal

Other
High school graduates entering
college
Other first-time freshmen

Subtotal

Total first-time freshmen in higher education
High school graduates entering college
Other first-time freshmen

Total first-time freshmen

Other Available Versions

Part-time students

Level of offering and control

FIRST-TIME FRESHMEN ENROLLMENT, BY ORIGINATING AREA (Full-Time Students Only)

| | Past A | 1ctual | Current | | | Projected | | | |
|------------------|--------|---------------|---------|------|------|-----------|------|------|--|
| Originating Area | 1958 | 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 | |

Kansas City

school graduates entering

Other first-time freshmen college

Subtotal

High school graduates entering Northern Missouri

Other first-time freshmen college

Subtotal

Central Missouri

school graduates entering college High

Other first-time freshmen

Subtotal

St. Louis

school graduates entering

college

Other first-time freshmen

Subtotal

Springfield-Joplin

High school graduates entering

college

Other first-time freshmen Subtotal

Part-time freshmen Other Available Versions

Level of offering and control

Counties upon request

| Past Actual Current Projected 1958 1963 1968 1969 1970 1971 |
|-----------------------------------------------------------------------------|
|-----------------------------------------------------------------------------|

Central Ozark High school graduates entering

Other first-time freshmen Subtotal

college

Southeastern Missouri
High school graduates entering
college
Other first-time freshmen

Subtota1

Total Missouri
High school graduates entering
college
Other first-time freshmen
Total first-time freshmen

TOTAL ENROLLMENT, BY LEVEL OF OFFERING AND CONTROL (Number Of Students)

| ĩ | | T |
|---|-------------------|-------------|
| | | 1978 |
| | | 1973 |
| | Projected | 1971 |
| | 14 | 1970 |
| | _ | 1969 |
| | Current | 1968 |
| | Actual | 1963 |
| | Past Actual | 1958 |
| | Level Of Offering | And Control |

Public
Full time
Junior colleges
State colleges
University
Other
Subtotal
Part time
Junior colleges
State colleges
University
Other
Subtotal
Full-time equivalents
Junior colleges
State colleges
Gubtotal
Full-time colleges
Junior colleges
State colleges
Junior colleges
State colleges
University
Other

Other Available Versions

Per cent of students

Program level

Private Full time

Junior colleges Four-year colleges

Universities

Other

Subtota1

Part time

Junior colleges

Four-year colleges Universities

Other Subtotal

Full-time equivalents Junior colleges

Four-year colleges Universities

Other Subtotal

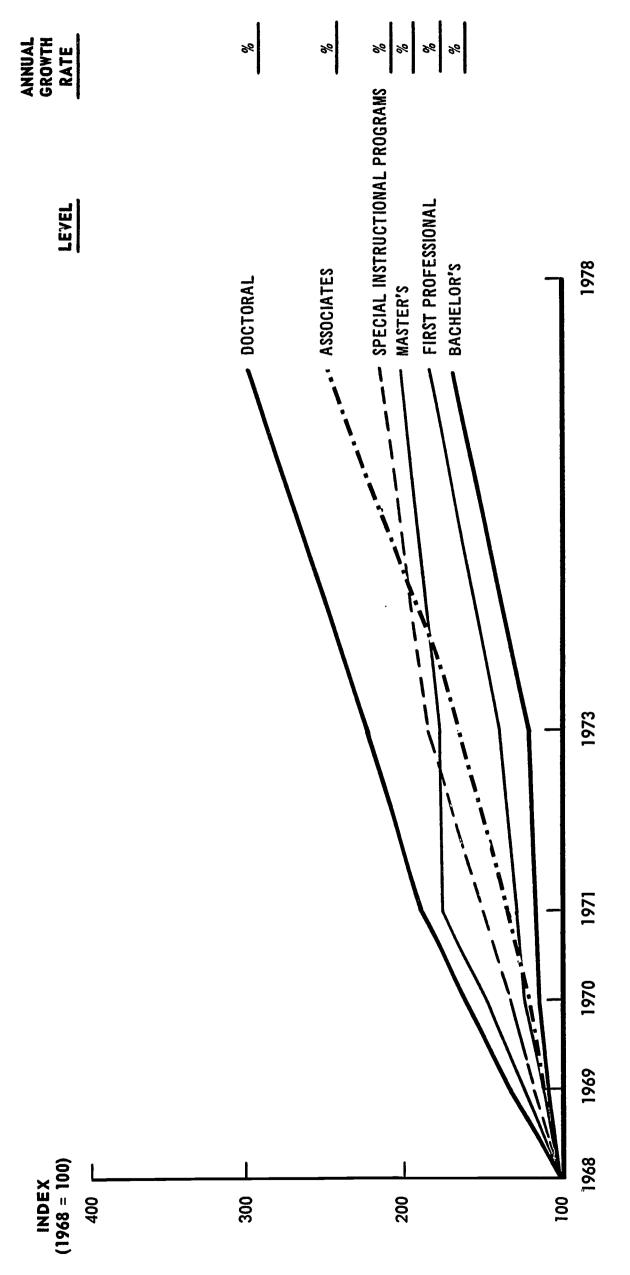
Total Public And Private

Full time Part time Full-time equivalents

g 1

PROJECTED INCREASE IN FTE STUDENTS, BY PROGRAM LEVEL SELECTED YEARS, 1968 THROUGH 1978

(YEARS ENDING AUGUST 31)



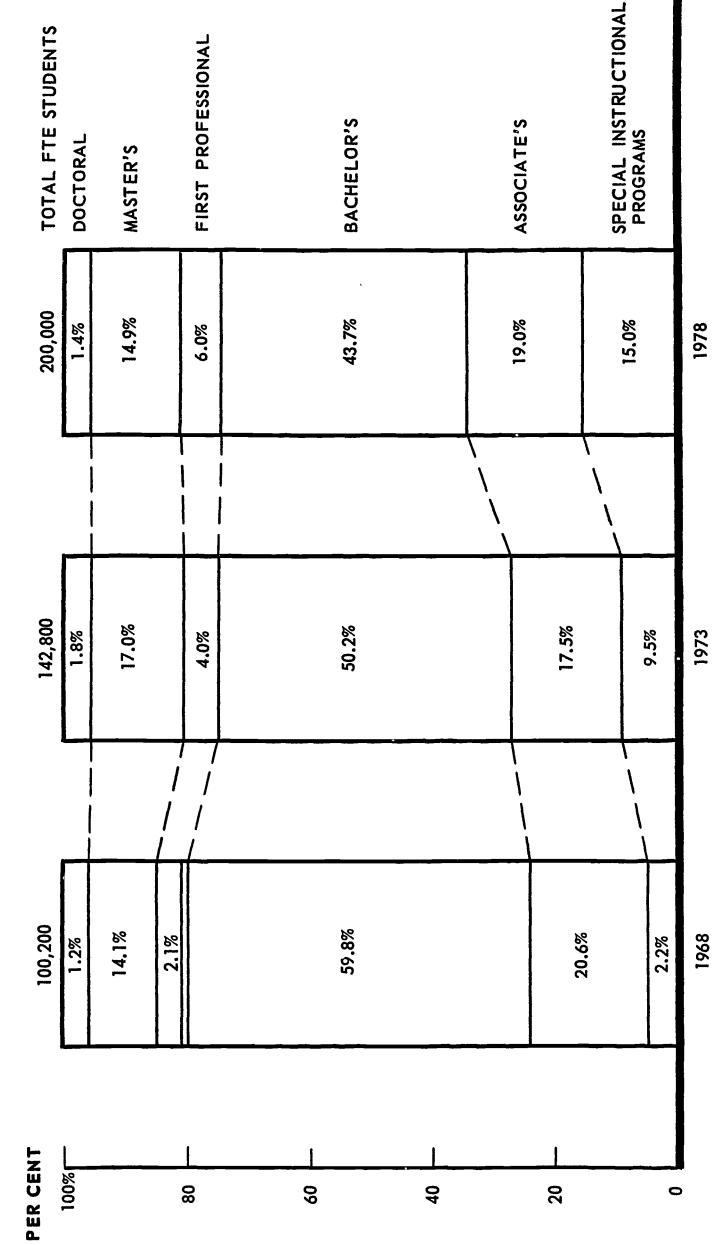
Note: Trend lines are illustrative only; they were not derived from actual data.

ERIC

MISSOURI HIGHER EDUCATION

PROGRAM LEVEL ΒY STUDENTS, FTE TOTAL 10 PERCENTAGE

(YEARS ENDING AUGUST 31)



Note: Data entries and graphs are illustrative only; they were not derived from actual data.

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ENROLLMENT, BY SUBJECT AREA (Number Of Students)

| Subject Area | Office Of Education | Past A | Actual | Current | | Д | Projected | | |
|----------------------------------|------------------------|--------|--------|---------|------|---------|---------------|--------------------------|------------------------------|
| | Code | 1958 | 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |
| Agriculture | 1000 | | | | | | | | |
| Architecture | 1400 | | | | | | | | |
| Biological Sciences | 1700 | | | | | | | | |
| Business And Commerce | 2000 | | | | | | | | |
| City Planning | 1500 | | | | | | | | |
| Computer Science And Systems | | | | | | | | | |
| Analysis | 2100 | | | | | | | | |
| Education | 2300 | | | | | | | | |
| Engineering | 2600 | | | | | | | | |
| English And Journalism | 2900 | | | | | | | | |
| Fine And Applied Arts | 3200 | | | | | | | | |
| Folklore | 3300 | | | | | | | | |
| Foreign Languages And Literature | 3500 | | | | | | | | |
| Forestry | 3800 | | | | | | | | |
| Geography | 4100 | | | | Ċ | ther Av | Table T | Other Available Versions | |
| Health Professions | 4400 | | | |) l | 1 1 | errel of | offering | and cont. |
| Home Economics | 4700 | | | | | ; ^ | Drogram level | Ottot Ing Jevel | Drogram level |
| Law | 2000 | | | | | | ields of | study n | Fields of study upon reguest |
| Library Science | 5300 | | | | | | | 5 | |
| Mathematical subjects | 2600 | | | | | | | | |
| Philosophy | 6500 | | | | | | | | |
| Physical Sciences | 0089 | | | | | | | | |
| Psychology | 7100 | | | | | | | | |
| Records Management | 7300 | | | | | | | | |
| Religion | 7400 | | | | | • | | | |
| Social Sciences | 7700 | | | | | | | | |
| Broad General Curriculums And | | | | | | | | | |
| Miscellaneous Fields | 8300 | | | | | | | | |

Total Students

ERIC Frontisted by ERIC

STUDENT ATTRITION (Per Cent Of Enrollment)

| Institutions institutions tutions tutions tutions 1963 | Category | Past | Past Actual | Current | | | Projected | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|-------------|---------|---------|-----------|-------------|----------|----------|
| tate public institutions colleges solleges sities tate private institutions colleges sities al public institutions colleges sity al private institutions colleges sar colleges al private institutions colleges c | (-080m) | 1958 | 1963 | 1968 | 1969 | 1 | 1971 | 1973 | 1978 |
| ons Other A 3. | Transfers | | | | | | | | |
| ons Other A 3. | Out-of-state public institutions | | | | | | | | |
| Other A 3. | Junior colleges | | | | | | | | |
| Other A 3. | State colleges | | | | | | | | |
| Other A 3. | Universities | | | | | | | | |
| Other A 3. | Out-of-state private instituions | | | | | | | | |
| Other A 1. 2. 2. 3. | Junior colleges | | | | | | | | |
| Other A 2. 3. | Four-year colleges | | | | | | | | |
| Other A 2. 3. | Universities | | | | | | | | |
| Other A 3. | Subtotal | | | | | | | | |
| Other A 3. | Missouri public institutions | | | | | | | | |
| Other A 3. | Junior colleges | | | | | | | | |
| Other A 3. | State colleges | | | | | | | | |
| Other A 3. | University | | | | | | | | |
| Other A 1. 2. 3. | Subtotal | | | | | | | | |
| Other A 1. | Missouri private institutions | | | | | | | | |
| Other A 1. 2. 3. | Junior colleges | | | | | | | | |
| Other A 3. | Four-year colleges | | | | | | | | |
| 1. 2. 2. 3. Ir | Universities | | | | Other A | vailable | Versions | | |
| Cent 3. | Subtotal | | | | , p-2 | Number | of studen | , v | |
| 1t 3. | Total | | | | 2.5 | Level of | offering | and cont | |
| | Per Cent | | | | 'n | Individua | 1 instituti | | |
| | Number | | | | ; | | | | i tedace |

| | Past / | Actual | Current | | 14 | Projected | | |
|----------|--------|--------|---------|------|------|-----------|------|------|
| Category | 1958 | 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |
| | | | | | | | | |

Discipline
Military service
Employment and financial
Marriage and maternity
Other
Unknown

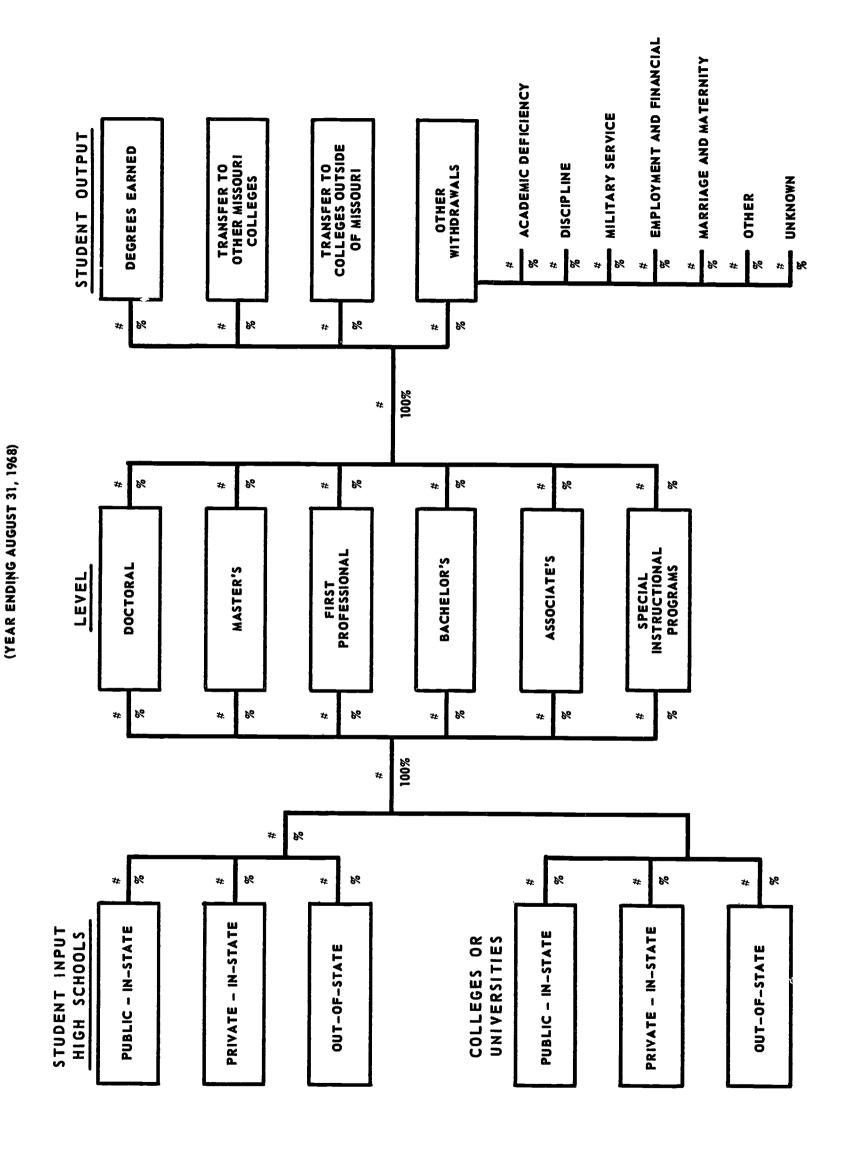
Academic deficiency

Withdrawals

Unknown Total Per Cent Number Total Number Of Full-Time Students Enrolled

ERIC

MISSOURI HIGHER EDUCATION
STUDENT INPUT-OUTPUT SUMMARY



THER AVAIL ABLE VERSIONS
Level of offering and control

37

C - INFORMATION REPORTS ON CURRENT STUDENTS

| Exhibit | |
|---------|-------------------------------------------|
| Number | |
| | Profile |
| II-15 | Profile Of Student Attributes |
| II-16 | Freshmen Achievement And Aptitude Ranking |
| II - 17 | Profile Of Students By Program Level |
| II-18 | Profile Of Students By Subject Area |
| | Source |
| II-19 | Source Of Students By Level And Control |
| | Student Financial Aid |
| II-20 | Student Financial Aid By Type |

PROFILE OF STUDENT ATTRIBUTES

(Per Cent Of Students)

| | | | 1.1: | | | | | | | |
|----------|----------|----------|---------------------------------------|----------|----------|--------------------|----------------------------------------------------------|----------|-----------------|----------|
| | | Į. | Fublic | | | Private | ate | | Total | |
| • | | _ | | | | | | | 1 | |
| Category | Journal | orare | | | Junior | Junior Four-Year | | | Do: | T. +21 |
| • | 10011001 | | | | | | | | 704 | 1 Oral |
| | Correges | Correges | Correges Correges University Subtotal | Subtotal | Colleges | Colleges | Colleges Colleges Imiversities Subtotal Cont Mumbo | Subtatel | 1400 | Trampho. |
| | | | | | 0 | | | 言さらいなけて | ב כיי ביי | |

Ethnic Group

American Indian Negro

Oriental

Spanish American

Total Other

Male

Semester Term Basis Female

Trimester Total Quarter

Session

Evening Day

Enrollment Status Part Time Full Time

Per Cent Number Total

-

Number of students Other Available Versions

Program level

Individual public institutions by level of offering

Correlation analysis upon request

FRESHMEN ACHIEVEMENT AND APTITUDE RANKING (Per Cent Of Students)

| Total | Der Cent Total |
|-------------------|----------------------------|
| Decile | Top 2 3 4 5 6 7 8 9 Bottom |
| Level Of Offering | And Control |

Junior colleges

High school class rank Aptitude test

State colleges

High school class rank

Aptitude test

University

High school class rank Aptitude test

Other

High school class rank Aptitude test

Subtota1

Private

High school class rank Junior colleges

Four-year colleges Aptitude test

High school class rank Aptitude test

Universities

High school class rank Aptitude test

Other

High school class rank Aptitude test

Subtota1

High School Class Rank Aptitude Test Total Students

Individual public institutions Other Available Version by level of offering

PROFILE OF STUDENTS BY PROGRAM LEVEL (Number Of Students)

| Office Off Associate Associate Associate Associate Associate Associate Associate Associate Associate Astriculture 1000 Terminal Transfer Bachelor's Professional Master's Doctoral Total Architecture 1400 Architecture 1400 Architecture 1500 Architecture 15 | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------|-----------|-----------|--------------|--------------|-----------|--------------|
| | | | Associate | Associate | First | | | |
| 000 000 000 000 000 000 000 000 | Subject Area | ode | Terminal | | Professional | Master's | | Total |
| 100 100 100 100 100 100 100 100 | Agriculture | 1000 | | | | | | |
| 700 500 500 500 500 500 500 700 7 | Architecture | 1400 | | | | | | |
| 200 500 500 500 500 500 500 500 | Biological Sciences | 1700 | | | | | | |
| 500 500 500 500 500 500 500 700 7 | Business And Commerce | 2000 | | | | | | |
| 100 500 500 500 500 500 500 500 | City Planning | 1500 | | | | | | |
| 100 300 500 500 500 800 100 700 500 500 600 700 700 800 800 800 800 800 8 | Computer Science And Systems | | | | | | | |
| 300 500 500 800 100 400 500 500 500 500 500 600 700 700 700 800 800 800 800 8 | Analysis | 2100 | | | | | | |
| 500 200 500 800 100 400 700 500 500 500 600 100 100 100 100 100 100 1 | Education | 2300 | | | | | | |
| 900 200 300 800 100 700 500 500 800 100 100 100 300 300 300 300 3 | Engineering | 2600 | | | | | | |
| 200 300 500 800 400 700 500 500 800 100 400 700 700 800 800 800 800 800 8 | English And Journalism | 2900 | | | | | | |
| 300 800 100 400 700 500 500 800 100 100 100 300 400 100 300 300 400 500 500 800 800 800 800 800 8 | Fine And Applied Arts | 3200 | | | | | | |
| 500 800 400 700 700 900 500 100 100 100 100 100 100 1 | Folklore | 3300 | | | | | | |
| 800 400 700 700 800 800 100 100 100 100 100 1 | Foreign Languages And Literatu | re 3500 | | | | | | |
| 100 400 700 500 500 500 100 100 100 100 1 | Forestry | 3800 | | | | | | |
| 400 700 500 500 500 100 100 700 300 | Geography | 4100 | | | | | | |
| 700 500 500 500 500 100 100 400 700 | Health Professions | 4400 | | | | | | |
| 000 300 500 500 800 100 300 400 300 | Home Economics | 4700 | | | | | | |
| 300 Other A 500 1. 2. 2. 2. 3.00 2. 3.00 3.00 3.00 3.00 3 | Law | 2000 | | | | | | |
| 500 500 800 100 300 400 700 | Library Science | 5300 | | | 4 | able Versi | ons | |
| 500 800 100 300 400 700 | Mathematical subjects | 2600 | | | | el of offeri | ng and co | itrol |
| 800 100 300 400 700 300 | Philosophy | 6500 | | | | ridual inst | itutions | |
| Psychology Records Management .7300 Religion Social Sciences Broad General Curriculums And Miscellaneous Fields 8300 | Physical Sciences | 0089 | | | by le | evel of offe | ering | |
| Records Management .7300 Religion Social Sciences Broad General Curriculums And Miscellaneous Fields 8300 | Psychology | 7100 | | | | | | |
| Religion Social Sciences Broad General Curriculums And Miscellaneous Fields 8300 | Records Management | . 7300 | | | | | | |
| Social Sciences Broad General Curriculums And Miscellaneous Fields | Religion | 7400 | | | | | | |
| Broad General Curriculums And Miscellaneous Fields | Social Sciences | 7700 | | | | | | |
| Miscellaneous Fields 8300 | Broad General Curriculums And | | | | | | | |
| | Miscellaneous Fields | 8300 | | | | | | |

Students

PROFILE OF STUDENTS BY SUBJECT AREA (Number Of Students)

| | الم من انهال | | Diblic | | - | | Duissato | | = | |
|----------------------------------|--------------|----------|----------|---------------|---|----------|--------------------------|------------|--------------|-------|
| | Title Of | | ATTON T | Г | - | - | TILVALE | _ | | |
| | on | Junior | State | -tuo | _ | Junior | Four-Year | Univer- | -qnc | |
| Subject Area | Code | Colleges | Colleges | versity total | _ | Colleges | Colleges | sities | total | Total |
| Agriculture | 1000 | | | | | | | | | |
| Architecture | 1400 | | | | | | | | | |
| Biological Sciences | 1700 | | | | | | | | | |
| Business And Commerce | 2000 | | | • | | | | | | |
| City Planning | 1500 | | | | | | | | | |
| Computer Science And Systems | | | | | | | | | | |
| Analysis | 2100 | | | | | | | | | |
| Education | 2300 | | | | | | | | | |
| Engineering | 2600 | | | | | | | | | |
| English And Journalism | 2900 | | | | | | | | | |
| Fine And Applied Arts | 3200 | | | | | | | | | |
| Folklore | 3300 | | | | | | | | | |
| Foreign Languages And Literature | 3500 | | | | | | | | | |
| Forestry | 3800 | | | | | | | | | |
| Geography | 4100 | | | | | | | | | |
| Health Professions | 4400 | | | | | | | | | |
| Home Economics | 4700 | | | | | | | | | |
| Law | 2000 | | | | | | | | | |
| Library Science | 5300 | | | | | | | | | |
| Mathematical subjects | 2600 | | | | | | | | | |
| Philosophy | 9200 | | | | | | | | | |
| Physical Sciences | 0089 | | | | | , | | | | |
| Psychology | 7100 | | | | | Othe | Other Available Versions | Version | ω Ι ΄ | |
| Records Management | 7300 | | | | | Ţ | Individual institutions | stitutions | by | |
| Religion | 7400 | | | | | | level of offering | ring | | |
| Social Sciences | 7700 | | | | | | | | | |
| Broad General Curriculums And | | | | | | | | | | |
| Miscellaneous Fields | 8300 | | | | | | | | | |
| | | | | | | | | | | |

Total Students

SOURCE OF STUDENTS BY LEVEL AND CONTROL

(Per Cent Of Students)

| | Total | Number |
|---------|------------------|--------------------------------------------------|
| Total | Per | Cent |
| | | Subtotal |
| Private | | Colleges Universities Subtotal Cent Number |
| Pri | unior Four-Year | Colleges |
| | 2 | |
| | | Subtotal |
| Public | | Colleges Colleges University Subtotal |
| | State | Colleges |
| | Junior | Colleges |
| | Originating Area | S City |
| • | 0 | Kansa |

Northern Missouri

Central Missouri

St. Louis

Springfield-Joplin

Central Ozark

Southeastern Missouri Subtotal Missouri

Arkansas

Illinois

Iowa

Kansas

Nebraska Kentucky

Oklahoma

Other states Tennessee

Foreign countries

Per Cent Number Total

Other Available Versions

Individual public institution by level of offering

Program level **2** % **4**

Freshmen

County upon request

STUDENT FINANCIAL AID BY TYPE

(Hundreds Of Dollars)

Total

Subtotal

Universities

Private

Four-Year Colleges

Colleges Junior

Subtotal

Colleges University Public State Colleges Junior All Students Receiving Aid Of Aid Government Subtota1 Work-study Guaranteed Other Direct Grants Loans Other

Total

Total Number Of Students Receiving Aid Per Student Receiving Aid Government Work-study Guaranteed Direct Grants Loans

Subtota1

Other

Total

Other

Other Available Versions

- Individual public institutions by level of offering
 - Per cent of students receiving aid ۶. نو نو
 - Per cent of total enrollment

D - INFORMATION REPORTS ON DEGREES AWARDED

| Exhibit Number | |
|-------------------|--------------------------------------------------------|
| | Subject And Level Breakdown |
| II-21 | Degrees Awarded, By Type Of Degree |
| II-22 | Degrees Awarded, By Type Of Degree And Subject Area |
| | Institutions |
| II-23 | Degrees Awarded, By State Colleges |



DEGREES AWARDED BY TYPE OF DEGREE (Number Of Students)

| | Office Of Associate | Associate | | <u> </u> | | Total | Total |
|----------------------------------|---------------------|-----------|------------|-----------------------|-------------------------------|-------------|--------|
| | Code Terminal | _ | Bachelor's | chelor's Professional | Master's Doctoral | | Number |
| Agriculture | 1000 | | | | | | |
| Architecture | 1400 | | | | | | |
| Biological Sciences | 1700 | | | | | | |
| Business And Commerce | 2000 | | | | | | |
| City Planning | 1500 | | | | | | |
| Computer Science And | | | | | | | |
| Systems Analysis | 2100 | | | | | | |
| Education | 2300 | | | | | | |
| Engineering | 2600 | | | | | | |
| English And Journalism | 2900 | | | | | | |
| Fine and Applied Arts | 3200 | | | | | | |
| Folklore | 3300 | | | | | | |
| Foreign Languages And | | | | | | | |
| Literature | 3500 | | | | | | |
| Forestry | 3800 | | | | | | |
| Geography | 4100 | | | | | | |
| Health Professions | 44 00 | | | | | | |
| Home Economics | 4700 | | | , | • | • | |
| Law | 2000 | | | Other | Other Available Versions | sions | 1 |
| Library Science | 5300 | | | . | Level of offering and control | ring and co | ntrol |
| Mathematical subjects | 2600 | | | 2. | Individual institutions | stitutions | |
| Philosophy | 6500 | | | | by level of offering | itering | |
| Physical Sciences | 0089 | | | | | | |
| Psychology | 7100 | | | | | | |
| Records Management | 7300 | | | | | | |
| Religion | 7400 | | | | | | |
| Social Sciences | 1700 | | | | | | |
| Broad General Curriculums | | | | | | | |
| And Miscellaneous Fields | 8300 | | | | | | |
| Total Number Of Degrees | S | | | | | | |

BY TYPE OF DEGREE AND SUBJECT AREA (Number Of Degrees) DEGREES AWARDED,

| Total | Sub- All | Universities total Institutions |
|---------|----------------|---------------------------------|
| Private | | Universities |
| Pr | Four-Year | colleges |
| | Sub- Junior | total Colleges (|
| | Sub | tota |
| Sublic | | Colleges Colleges University |
| Pu | State | Colleges |
| | Junior | Colleges |
| | Type Of Degree | And Subject Area |

- Terminal Associate

Engineering related

Science related

Health Services

engineering related Other science or

nonengineering related Nonscience and

Subtotal

- Transfer Associate

Arts

Science

Other

Subtotal Bachelor's

Agriculture

Architecture

Biological Sciences

Business and Commerce City Planning

Computer Science and Systems Analysis

Education

Engineering

English and Journalism

Fine and Applied Arts

Folklore

Foreign Languages and Literature

Forestry

Professions Geography Health]

Other Available Versions

Individual public institution by level of offering

Per cent by subject area to total and type of degree

Fields of study upon request

| E | | Public | lic | | | Pri | Private | | Total |
|---------------------------|------------|----------|------------------------------|-------|----------|-----------|--------------|-------|--------------|
| Type Of Degree | Junior | State | | Sub- | Junior | Four-Year | | Sub- | A11 |
| And Subject Area | Colleges (| Solleges | Colleges Colleges University | total | Colleges | | Universities | total | Institutions |
| Bachelor's (Cont'd) | | | | | | | | | |
| Home Economics | | | | | | | | | |
| Law | | | | | | | | | |
| Library Science | | | | | | | | | |
| Mathematical subjects | | | | | | | | | |
| Philosophy | | | | | | | | | |
| Physical Sciences | | | | | | | | | |
| Psychology | | | | | | | | | |
| Records Management | | | | | | | | | |
| Religion | | | | | | | | | |
| Social Sciences | | | | | | | | | |
| Broad general curriculums | | | | | | | | | |
| and miscellaneous fields | | | | | | | | | |
| Subtotal | | | | | | | | | |
| First Professional | | | | | | | | | |
| Dentistry | | | | | | | | | |
| Medicine | | | | | | | | | |
| Veterinary Medicine | | | | | | | | | |
| Law | | | | | | | | | |
| Theology | | | | | | | | | |
| Chiropody or Podiatry | | | | | | | | | |
| Optometry | | | | | | | | | |
| Osteopathy | | | | | | | | | |
| Other | | | | | | | | | |
| Subtotal | | | | | | | | | |

ERIC"

| | - G-C- | | | | | | | |
|---------------------------|--------------|----|------|----------|-----------|--------------|--------|--------------|
| | Public | ic | | | Pr | Private | | Total |
| Type Of Degree | Junior State | | Sub- | Junior | Four-Year | | Sub- | A11 |
| And Subject Area | S | | | Colleges | Colleges | Universities | total. | Institutions |
| Master's | | | | | | | | |
| Agriculture | | | | | | | | |
| Architecture | | | | | | | | |
| Biological Sciences | | | | | | | | |
| Business and Commerce | | | | | | | | |
| City Planning | | | | | | | | |
| Computer Science and | | | | | | | | |
| Systems Analysis | | | | | | | | |
| Education | | | | | | | | |
| Engineering | | | | | | | | |
| English and Journalism | | | | | | | | |
| Fine and Applied Arts | | | | | | | | |
| Folklore | | | | | | | | |
| Foreign Languages and | | | | | | | | |
| Literature | | | | | | | | |
| Forestry | | | | | | | | |
| Geography | | | | | | | | |
| Health Professions | | | | | | | | •1 |
| Home Economics | | | | | | | | |
| Law | | | | | | | | |
| Library Science | | | | | | | | |
| Mathematical subjects | | | | | | | | |
| Philosophy | | | | | | | | |
| Physical Sciences | | | | | | | | |
| Psychology | | | | | | | | |
| Records Management | | | | | | | | |
| Religion | | | | | | | | |
| Social Sciences | | | | | | | | |
| Broad general curriculums | | | | | | | | 1 |
| and miscellaneous fields | | | | | | | | Pag |
| Subtotal | | | | | | | | ge . |

| | | _ | |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------|
| Total | | AII | Inctitutions |
| | T. | Sab- | -otal |
| Private | | | ity total Colleges Colleges [Iniversities total Institutions |
| Pr | The state of the s | Janitor Four-rear | Colleges |
| | Timica | JOHN | Colleges |
| | Sish | | total |
| lic | | : | Correges Correges University |
| Public | State | | Colleges |
| | Junior | 2112 | Correges |
| r o | Type Of Degree | And Subject Area | 35 To 100 C |

Doctoral

Agriculture

Architecture

Biological Sciences

Business and Commerce

Computer Science and City Planning

Systems Analysis

Education

Fngineering English and Journalism

Fine and Applied Arts Folklore

Foreign Languages and Literature

Forestry

5

Health Professions Geography

Economics Home Law

Mathematical subjects Library Science

Philosophy

Physical Sciences

Psychology Records Management Religion

Social Sciences

general curriculums and miscellaneous fields Broad

Total All Degrees

5.

Subtotal

DEGREES AWARDED BY STATE COLLEGES (Number Of Degrees)

| | Tota |
|-------------------|---------------------|
| Lincoln | Missouri University |
| Southwest | Missouri |
| Southeast | Missouri |
| rtheast Northwest | Missouri |
| Š | Missouri |
| Central | Missouri |
| Type Of Degree | By Subject Area |

Associate - Terminal

Engineering related Science related

Health Services

Other science or

engineering related

Nonscience and

nonengineering related Subtotal

Associate - Transfer

Arts

Science

Other

Subtotal

Bachelor's

Agriculture Architecture

Biological Sciences

Business and Commerce

Computer Science and City Planning

Systems Analysis Education

Engineering English and Journalism

Fine and Applied Arts Folklore

Foreign Languages and Literature

Forestry

Health Professions Geography

Other Available Versions

Public university campuses

Public junior colleges

Private institutions by level . 2. £

of offering

| Type Of Degree By Subject Area | Central Missouri | Northeast Missouri | Northwest Missouri | Southeast. Missouri | Southwest Missouri | Lincoln University | Total |
|-----------------------------------|---------------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|-------|
| Bachelor's (Cont'd) | | | | | | | |
| Home Economics | | | | | | | |
| Law | | | | | | | |
| Library Science | | | | | | | |
| Mathematical subjects | | | | | | | |
| Philosophy | | | | | | | |
| Physical sciences | | | | | | | |
| Psychology | | | | | | | |
| Records Management | | | | | | | |
| Religion | | | | | | | |
| Social Sciences | | | | | | | |
| Broad general curriculums | ıms | | | | | | |
| and miscellaneous fields | sp] | | | | | | |
| Subtotal | | | | | | | |
| First Professional | | | | | | | |
| Dentistry | | | | | | | |
| Medicine | | | | | | | |
| Veterinary Medicine | | • | | | | | |
| Law | | | | | | | |
| Theology | | | | | | | |
| Chiropody or Podiatry | | | | | | | |
| Optometry | | | | | | | |
| Osteopathy | | | | | | | |
| Other | | | | | | | |
| Subtotal | | | | | | | |

| Type Of Degree By Subject Area | Central Missouri | Northeast Missouri | Northwest Missouri | Southeast Missouri | Southwest Missouri | Lincoln University | Total |
|-----------------------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------|
| Master's | | | | | | | |
| Agriculture | | | | | | | |
| Architecture | | | | | | | |
| Biological Sciences | | | | | | | |
| Business and Commerce | ø. | | | | | | |
| City Planning | | | | | | | |
| Computer Science and | | | | | | | |
| Systems Analysis | | | | | | | |
| Education | | | | | | | |
| Engineering | | | | | | | |
| English and Journalism | | | | | | | |
| Fine and Applied Arts | | | | | | | |
| Folklore | | | | | | | |
| Foreign Languages | | | | | | | |
| and Literature | | | | | | | |
| Forestry | | | | | | | |
| Geography | | | | | | | |
| Health Professions | | | | | | | |
| Home Economics | | | | | | | |
| Law | | | | | | | |
| Library Science | | | | | | | |
| Mathematical subjects | | | | | | | |
| Philosophy | | | | | | | |
| Physical Sciences | | | | | | | |
| Psychology | | | | | | | |
| Records Management | | | | | | | |
| Religion | | | | | | | |
| Social Sciences | | | | | | | |
| Broad general curriculums | ıms | | | | | | |
| and miscellaneous fields | lds | | | | | | |
| Subtotal | | | | | | | |



| Lincoln University | |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Southwest Missouri | |
| Southeast Missouri | |
| Northwest Missouri | |
| Northeast Missouri | |
| Central Missouri | g s |
| Type Of Degree By Subject Area | Doctoral Agriculture Architecture Biological Sciences Business and Commerce City Planning Computer Science and Systems Analysis Education English and Journalism Fine and Applied Arts Foreign Languages and Literature Foreign Languages and Literature Forestry Geography Health Professions Home Economics Law Library Science Mathematical subjects Physical Sciences Psychology Records Management Religion Social Sciences Broad general curriculums and miscellaneous fields Subtotal Total All Degrees |

ERIC Full Text Provided by ERIC

Total

E - RECORD LAYOUTS

| Exhibit Number | |
|-------------------|--------------------------|
| II-24 | Enrollment Record |
| II-25 | Student Attrition Record |

ENROLLMENT RECORD

| Punched | | | Code |
|----------------|----------------------------------|----------------------------------|---------|
| Card Column | Item | Data | Number |
| Column | 100111 | Data | |
| 1 - 2 | Record type | Enrollment record | 01 |
| 3 | Level of offering | Junior college | 1 |
| | | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5-6 | Institution code | | |
| 7-9 | Record date | Month and year | |
| 10-18 | Record identification | Unique number | |
| | number | - | |
| 19 | Credit status | Enrolled | 1 |
| | | Auditor | 2 |
| | | Other | 3 |
| 20 | Sex | Male | ${f M}$ |
| | | Female | F |
| 21-22 | Year of birth | Last two digits of year of birth | |
| 23 | Ethnic group | American Indian | 2 |
| | | Negro | 4 |
| | | Oriental | 6 |
| | | Spanish American | 7 |
| | | Other | 8 |
| 24 | Type of high school | Out-of-State public | 4 |
| | | Out-of-State private | |
| | | Religious affiliation | 5 |
| | | Other | 6 |
| | | In-State public | 7 |
| | | In-State private | |
| | | Religious affiliated | 8 |
| | | Other | 9 |
| 25-27 | County of high school graduation | | |

| Punched Card | | | Code |
|-----------------|-------------------------|---------------------------------------------------------------------------------------------------------|--------|
| Column | Item | Date | Number |
| 28-30 | State and country | 100 series codes will represent states; 200 through 800 series codes will be used for foreign countries | |
| 31-33 | Entering date | Month and year entered this institution | |
| 34-35 | Program level and class | Undergraduate Freshman or first year of junior college - first | 02 |
| | | semester Freshman or first year of junior college - second semester | 03 |
| | | Sophmore or second year of junior college -first semester | 04 |
| | | Sophmore or second year of junior college - second semester | 05 |
| | | Junior - first semester | 06 |
| | | Junior - second semester | 07 |
| | | Senior - first semester | 08 |
| | | Senior - second semester | 09 |
| | | First professional | 21 |
| | | Master's Doctoral | 31 |
| | | First year | 41 |
| | | Advanced | 42 |
| | | Thesis | 43 |
| | | Other postgraduate | 51 |
| | | Adult education | 61 |
| | | Correspondence | 71 |
| | | Other | 81 |



| Punched Card | | | Code |
|-----------------|--------------------------------------------------|------------------------------------|---------|
| Number | <u>Item</u> | <u>Data</u> | Number |
| 36 - 37 | State professional classifica- | Primary professional | |
| | tion | First year | 11 |
| | | Second year | 12 |
| | | Third year | 13 |
| | | Fourth year | 14 |
| | | Advanced professional | |
| | | First year | 21 |
| | | Second year | 22 |
| | | Third year | 23 |
| | | Fourth year | 24 |
| 38 | Enrollment status | Full time | 1 |
| | | Part time | 5 |
| 39 | Resident/extension | Resident | |
| | | Live in institutionally | 2 |
| | | owned or operated | |
| | | housing | |
| | | Live in other housing | 4 |
| | | away from home | _ |
| | | Live at home and | 6 |
| | | commute | _ |
| | | Extension | 8 |
| 40 | Marital status | Single | S |
| | | Married | ${f M}$ |
| 41-43 | High school rank | Decide ranking | |
| 44 - 46 | Student aptitude test score | 6.1.1.1.1.1.1.m. | • |
| 47 | Type of student aptitude test | Scholastic Aptitude Test | 1 |
| | | American College Testing | 2 |
| 40 51 | C. 1 | Program Office of Education items | |
| 48-51 | Student's major field of | Office of Education item | |
| E 2 | study/curriculum | number Office of Education item | |
| 52 | First time field of study/ curriculum offered | number | |
| 53 | | In-State public | 1 |
| 93 | College or university transferred from | In-State public In-State private | • |
| | transferred from | Religious affiliation | 2 |
| | | Other | 3 |
| | | Out-of-State public | 6 |
| | | Out-of-State private | • |
| | | Religious affiliation | 7 |
| | | Other | 8 |
| | | - | - |



| Punched Card | | | Code |
|-----------------|---------------------------------------------|-----------------------------------------------------------------------|----------|
| Column | <u>Item</u> | <u>Data</u> | Number |
| 54 | College or university trans- | Junior college | 5 |
| _ | ferred from by level of | Four-year college | 6 |
| | offering | University | 7 |
| | 5 | Special school (seminary) | 8 |
| 55-59 | College or university transferred from code | Federal educational institution code | |
| 60 | Term basis | Semester | 2 |
| | | Quarter | 4 |
| | | Trimester | 6 |
| | | Other | 8 |
| 61-62 | Credit-hours | | |
| 63-64 | Contact-hours | | |
| 65-67 | Student work assignments | Actual earnings during the previous term - dollars to the nearest 100 | : |
| 68 | Type of loan | National Defense Educatio | n |
| | - / 1 | Loan | 1 |
| | | Federal Low-Interest | |
| | | Student Loan | 2 |
| | | Health Professions | |
| | | Student Loan | 3 |
| | | United Student Assistance | |
| | | Fund | 4 |
| | | Other | 5 |
| 69 -70 | Amount of loan | Dollars to the nearest 100 |) |
| 71 | Type of grant | Codes will be established as required | |
| 72-73 | Amount of grant | Dollars to the nearest 100 |) |



STUDENT ATTRITION RECORD

| Punched Card Column | Item | Data | Code Number |
|---------------------------|----------------------------------|----------------------------------|----------------|
| | | | |
| 1-2 | Record type | Attrition record | 02 |
| 3 | Level of offering | Junior college | 1 |
| | | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5 - 6 | Institution code | | |
| 7-9 | Record date | Month and year | |
| 10-18 | Record identification number | Unique number | |
| 19 | Credit status | Enrolled | 1 |
| | | Auditor | 2 |
| | | Other | 3 |
| 20 | Sex | Male | ${f M}$ |
| | | Female | F |
| 21-22 | Year of birth | Last two digits of year of birth | |
| 23 | Ethnic group | American Indian | 2 |
| | G - | Negro | 4 |
| | | Oriental | 6 |
| | | Spanish American | 7 |
| | | Other | 8 |
| 24 | Type of high school | Out-of-State public | 4 |
| | , - | Out-of-State private | |
| | | Religious affiliation | 5 |
| | | Other | 6 |
| | | In-State public | 7 |
| | | In-State private | |
| | | Religious affiliation | 8 |
| | | Other | 9 |
| 25 - 27 | County of high school graduation | | |



| Punched Card | | | Code |
|-----------------|-------------------------|---------------------------------------------------------------------------------------------------------|---------|
| Column | <u>Item</u> | Data | Number |
| 28-30 | State and country | 100 series codes will represent states; 200 through 800 series codes will be used for foreign countries | |
| 31-33 | Entering date | Month and year entered this institution | |
| 34 - 35 | Program level and class | Undergraduate Freshman or first year of junior college - first semester | 02 |
| | | Freshman or first year of junior college second semester | 03 |
| | | Sophomore or second year of junior college first semester | 04 |
| | | Sophomore or second year of junior college - second semester | 05 - |
| | | Junior - first semester | 06 |
| | | Junior - second semester Senior - first | 07 |
| | | semester Senior - second | 08 |
| | | semester | 09 |
| | | First professional | 21 |
| | | Master's | 31 |
| | | Doctoral | |
| | | First year | 41 |
| | | ${f A}$ dvanced | 42 |
| | | Thesis | 43 |
| | | Other postgraduate | 51 |
| | | Adult education | 61 |
| | | Correspondence | 71 |
| | | Other | 81 |

| Punched Card Column | Item | Data | Code Number |
|---------------------------|--------------------------------|---------------------------------------------------|----------------|
| | | | |
| 36 - 37 | State professional classifica- | Primary professional | |
| | tion | First year | 11 |
| | | Second year | 12 |
| | | Third year | 13 |
| | | Fourth year | 14 |
| | | Advanced professional | |
| | | First year | 21 |
| | | Second year | 22 |
| | | Third year | 23 |
| | | Fourth year | 24 |
| 38 | Enrollment status | Full time | 1 |
| | | Part time | 5 |
| 39 | Resident/extension | Resident | |
| | | Live in institutionally owned or operated housing | 2 |
| | | Live in other housing away from home | 4 |
| | | Live at home and commute | 6 |
| | | Extension | 8 |
| 40 | Marital status | Single | S |
| | | Married | \mathbf{M} |
| 41-43 | High school average | | |
| 44-46 | Student aptitude test score | | |
| 47 | Type of student aptitude test | Scholastic Aptitude Test | 1 |
| | ,, | American College Testing Program | 2 |
| 48-51 | Field of study/curriculum | Office of Education item number | 6 |
| 52 | First time course offered | | |
| 53 | College or university | In-State public | 1 |
| | transferred from | In-State private | |
| | | Religious affiliation | 2 |
| | | Other | 3 |
| | | Out-of-State public | 6 |
| | | Out-of-State private | |
| | • | Religious affiliation | 7 |
| | | Other | 8 |

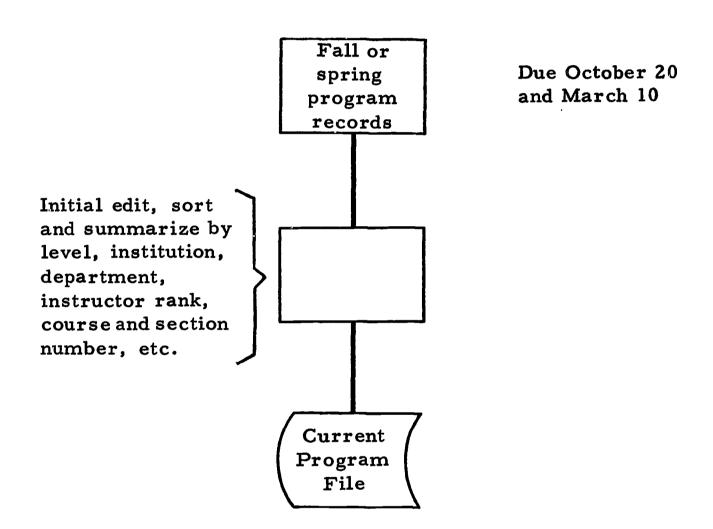
| Punched Card Column | Item | Data | Code Number |
|---------------------------|----------------------------|--------------------------------------|----------------|
| Column | item | Data | Mumber |
| 5 4 | College or university | Junior college | 7 |
| | transferred from, by level | Four-year college | 8 |
| | of offering | University | 9 |
| 55 | Term basis | Semester | 2 |
| | | Quarter | 4 |
| | | Trimester | 6 |
| 56 - 57 | Attrition code | Transfer | 02 |
| | | Academic deficiencies | 03 |
| | | Discipline | 04 |
| | | Military service | 05 |
| | | Employment and financial | 06 |
| | | Marriage or maternity | 08 |
| | | Other | 09 |
| | | Unknown | 10 |
| 58-60 | Termination date | Month and year | |
| 61 | College or university | In-State public | 1 |
| | transferred to, by control | In-State private | |
| | | Religious affiliation | 2 |
| | | Other | 3 |
| | | Out-of-State public | 6 |
| | | Out-of-State private | |
| | | Religious affiliation | 7 |
| | | Other | 8 |
| 62 | College or university | Junior college | 7 |
| | transferred to, by level | Four-year college | 8 |
| | of offering | University | 9 |
| 63-64 | Missouri college code | | |
| 65 -69 | Other college code | Federal educational institution code | |

III - PROGRAM INFORMATION SUBSYSTEM

A - FLOW CHARTS

| Number | |
|--------|-------------------------------------------------------------------|
| III-1 | Creating Initial Files Or Processing Fall And Spring Program Data |
| III-2 | Updating Program History File |
| III-3 | Processing Planning Reports |
| III-4 | Processing Information Reports |

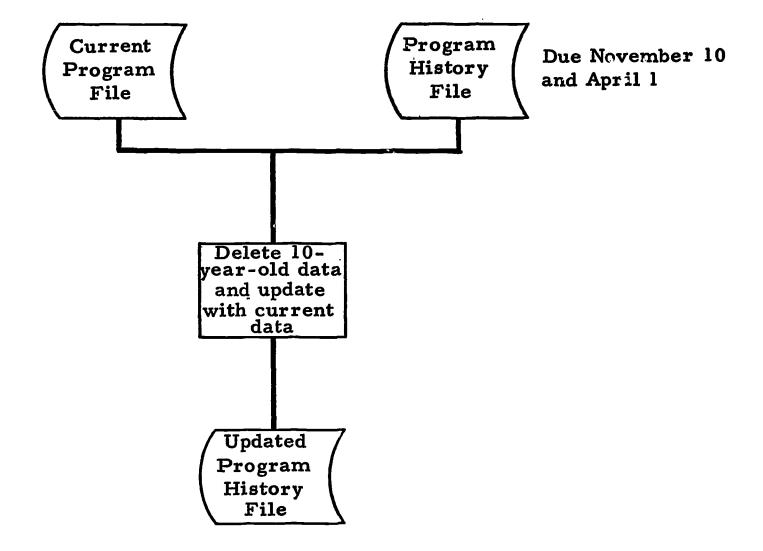
CREATING INITIAL FILES OR PROCESSING FALL AND SPRING PROGRAM DATA



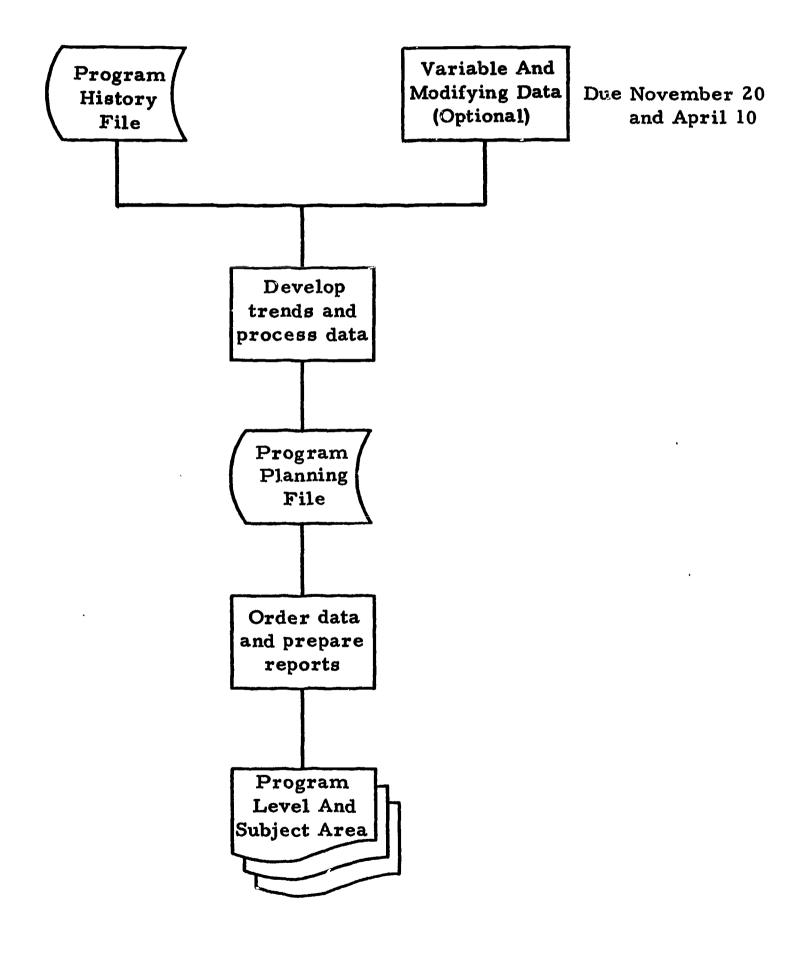


1.1

MISSOURI HIGHER EDUCATION UPDATING PROGRAM HISTORY FILE

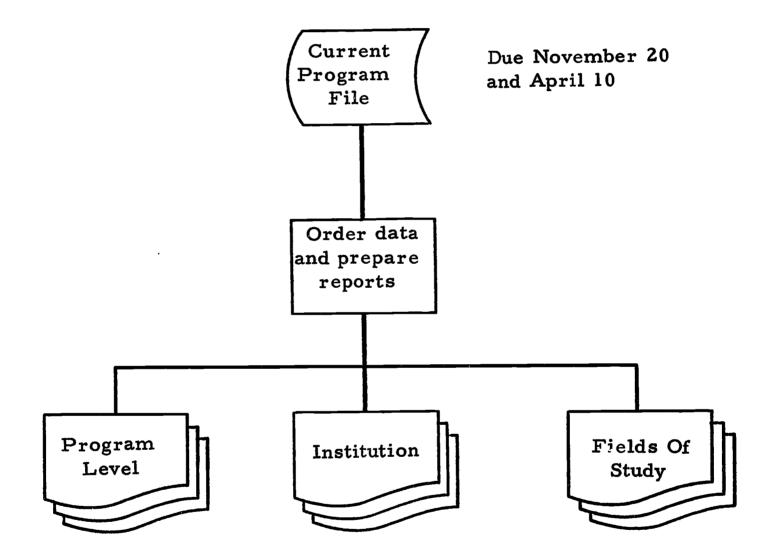


MISSOURI HIGHER EDUCATION PROCESSING PLANNING REPORTS





MISSOURI HIGHER EDUCATION PROCESSING INFORMATION REPORTS



B - PLANNING REPORTS FOR FUTURE MISSOURI HIGHER EDUCATION

Exhibit Number

Program Level And Subject Area

III-5 Courses Offered At The Public University

COURSES OFFERED AT THE PUBLIC UNIVERSITY (Total Credit-Hours)

| Projected | 1969 1970 1971 1973 1978 |
|---------------|--------------------------|
| Current | 1968 |
| Actual | 1963 |
| Past / | 1958 |
| Program Level | And Subject Area |

Other science or engineering Associate - Terminal Engineering related Health Services Science related related

Nonscience and nonengineering

Subtotal related

Science

Subtotal Other

Agriculture Bachelor's

Business and Commerce Biological Sciences City Planning Architecture

Computer Science and Systems Analysis

Engineering Education

English and Journalism Fine and Applied Arts Folklore

Foreign Languages and

Health Professions Literature Geography Forestry

Other Available Versions

State colleges

Public junior colleges

Private institutions by level

| D | | | | | | | |
|---------------------------|-------------|---------|-------|------|----------------------------|------|------|
| And Subject And | t Act | Current | | | $\operatorname{Projected}$ | rd | |
| ring publications | 1958 1963 | 1968 | 1969. | 1970 | 1971 | 1973 | 1978 |
| Bachelor's (Cont'd) | | | | | | | |
| Home Economics | | | | | | | |
| Law | | | | | | | |
| Library Science | | | | | | | |
| Mathematical subjects | | | | | | | |
| Philosophy | | | | | | | |
| Physical Sciences | | | | | | | |
| Psychology | | | | | | | |
| Records Management | | | | | | | |
| Religion | | | | | | | |
| Social Sciences | | | | | | | |
| Broad general curriculums | | | | | | | |
| and miscellaneous fields | | | | | | | |
| Subtotal | | | | | | | |
| First Professional | | | | | | | |
| Dentistry | | | | | | | |
| Medicine | | | | | | | |
| Veterinary Medicine | | | | | | | |
| Law | | | | | | | |
| Theology | | | | | | | |
| Chiropody or Podiatry | | | | | | | |
| Optometry | | | | | | | |
| Osteopathy | | | | | | | |
| Other | | | | | | | |
| Subtotal | | | | | | | |

| Q | 1969 1970 1971 1973 1978 |
|---------------|--------------------------|
| Current | 1968 |
| Past Actual | 1958 1963 |
| Program Level | And Subject Area |

Master's

Agriculture

Architecture

Biological Sciences

Business and Commerce

Computer Science and City Planning

Systems Analysis

Education

Engineering

English and Journalism

Fine and Applied Arts Folklore

Foreign Languages and Literature

Forestry

Geography

Health Professions Home Economics

Law

Library Science

Mathematical subjects Philosophy

Physical Sciences

Records Management Psychology

Social Sciences Religion

Broad general curriculums and miscellaneous fields Subtotal

| Ì | | | |
|---|---------------|------------------|--|
| | | 1978 | |
| | | 1973 | |
| | Projected | 1971 | |
| | , , | 1970 | |
| | | 1969 | |
| | Current | 1968 | |
| | Actual | 1963 | |
| | Past Actu | 1958 | |
| | Program Level | And Subject Area | |

Doctoral

Architecture Agriculture

Biological Sciences

Business and Commerce

City Planning

Computer Science and Systems

Analysis

Education

Engineering

English and Journalism

Fine and Applied Arts

Folklore

Foreign Languages and

Literature

Forestry

Health Professions Geography

Home Economics

Law

Library Science

Mathematical subjects

Philosophy Physical Sciences

Records Management Psychology

Religion

Social Sciences

Broad general curriculums and miscellaneous fields Subtotal

Total All Levels

C - INFORMATION REPORTS ON CURRENT SUBJECT AREAS

| Exhibit Number | |
|-------------------|-------------------------------------------------------------------------|
| III-6 | Program Level Courses Offered By Program Level At The Public University |
| III-7 | Institution Courses Offered By Program Level And Subject Area |
| | Fields Of Study |
| III-8 | Courses Offered By Fields Of Study At The Public University |
| III-9 - | Proposed Fields Of Study At The Public University |
| | |

COURSES OFFERED BY PROGRAM LEVEL AT THE PUBLIC UNIVERSITY (Total Credit-Hours)

| | | Associate - | Associate - | | First Pro- | | | |
|----------------------------------|--------|-------------|----------------|-----------------------------|---------------|----------|----------|-------|
| Subject Area | Number | Terminal | Transfer | Bacehlor's | fessional | Master's | Doctoral | Total |
| Agriculture | 1000 | | | | | | | |
| Architecture | | | | | | | | |
| Biological Sciences | 1700 | | | | | | | |
| Business And Commerce | 2000 | | | | | | | |
| City Planning | 1500 | | , | | | • | | |
| Computer Science And Systems | | | | | | | | |
| Analysis | 2100 | | | | | | | |
| Education | 2300 | | | | | | | |
| Engineering | 2600 | | | | | | | |
| English And Journalism | 2900 | | | | | | | |
| Fine And Applied Arts | | | | | | | | |
| Folklore | 3300 | | | | | | | |
| Foreign Languages And Literature | | | | | | | | |
| Forestry | 3800 | | | | | | | |
| Geography | 4100 | | | | | | | |
| Health Professions | | | | | | | | |
| Home Economics | 4700 | | | | | | | |
| Law | 2000 | | | | | | | |
| Library Science | | | | | | | | |
| Mathematical subjects | | | | | | | | |
| Philosophy | 6500 | | | | | | | |
| Physical Sciences | 0089 | | | | | | | |
| Psychology | 7100 | | | | | | | |
| Records Management | 7300 | | | | | | | |
| Religion | 7400 | | | | | | | |
| Social Sciences | 7700 | | | | | | | |
| Broad General Curriculums And | | Other | | ersions | | | | |
| Miscellaneous Fields | 8300 | | l | ges | | | | |
| | | | | Public junior colleges | ; | | | |
| Total All Subject Areas | | | | titutions by le | vel of offeri | ng | | |
| | | 4. | 4. Fields of s | ields of study upon request | ıest | | | |

COURSES OFFERED BY PROGRAM LEVEL AND SUBJECT AREA (Total Credit-Hours)

| | | Universi | ersity Of Missouri | souri | | | | |
|------------------|--------------------|----------|--------------------|-----------|-------|----------------|-------------------------------------------------------|-------|
| Program Level | | | | | Sub- | Sub- St. Louis | s Washington | |
| And Subject Area | Columbia Rolla Kar | Rolla | Kansas City | St. Louis | total | University | nsas City St. Louis total University University Total | Total |

erminal Associate - T

Engineering related

Science related

Health Services

Other science or engineering related

and nonengineering related Nonscience

Subtotal

Associate - Transfer

Arts

Science

Other

Subtotal

Bachelor's

Agriculture

Architecture

Biological Sciences

Business and Commerce

City Planning

Computer Science and Systems Analysis

Education

Engineering

Journalism English and

Fine and Applied Arts

Folklore

guages and Literature Foreign Lan

Forestry

Geography

Health Professions

Other Available Versions

State colleges

Public junior colleges

Private institutions upon request

Fields of study upon request

| ţ | | Oniv | University Of Missouri | souri | | | - | |
|---------------------------------------|----------|-------|------------------------|-------|---------------------|----------------------|--------------------------|----------|
| Program Level And Subject Area | Columbia | Rolla | Kansas City | St. | Sub- Louis total | St. Louis University | Washington University | Total |
| Bachelor's (Cont'd) | | | | | | | | |
| | | | | | | | | |
| Library Science | | | | | | | | |
| Mathematical Subjects | | | | | | | | |
| Philosophy | • | | | | | | | |
| Physical Sciences | | | | | | | | |
| Psychology | | | | | | | | |
| Records Management | | | | | | | | |
| Religion | | | | | | | | |
| Social Sciences | | | | | | | | |
| Broad general curriculums and | | | | | | | | |
| miscellaneous fields | | | | | | | | |
| Subtotal | | | | | | | | |
| First Professional | | | | | | | | |
| Dentistry | | | | | | | | |
| Medicine | | | | | | | | |
| Veterinary Medicine | | | | | | | | |
| Law | | | | | | | | |
| Theology | | | | | | | | |
| Chiropody or Podiatry | | | | | | | | |
| Optometry | | | | | | | | |
| Osteopathy | | | | | | | | |
| Other | | | | | | | | |
| Subtotal | | | | | | | | |
| Master's | | | | | | | | |
| Agriculture | | | | | | | | |
| Architecture | | | | | | | | |
| Biological Sciences | | | | | | | | |
| Business and Commerce | | | | | | | | |
| City Planning | | | | | | | | IT of |
| Computer Science and Systems Analysis | m | | | | | | | |

- - 1

| þ | | Univ | University Of Missouri | souri | | | |
|---------------------------------------|----------|-------|------------------------|-----------|---------------|-------------------------|--------------------------|
| Frogram Level And Subject Area | Columbia | Rolla | Kansas City | St. Louis | Sub- total | St. Louis University | Washington University |
| Master's (Cont'd) | | | | | | | |
| Education | | | | | | | |
| Engineering | | | | | | | |
| English and Journalism | | | | | | | |
| Fine and Applied Arts | | | | | | | |
| Folklore | | | | | | | |
| Foreign Languages and Literature | | | | | | | |
| Forestry | | | | | | | |
| Geography | | | | | | | |
| Health Professions | | | | | | | |
| Home Economics | | | | | | | |
| Law | | | | | | | |
| Library Science | | | | | | | |
| Mathematical Subjects | | | | | | | |
| Philosophy | | | | | | | |
| Physical Sciences | | | | | | | |
| Psychology | | | | | | | |
| Records Management | | | | | | | |
| Religion | | | | | | | |
| Social Sciences | | | | | | | |
| Broad general curriculums and | | | | | | | |
| miscellaneous fields | | | | | | | |
| Subtotal | | | | | | | |
| Doctoral | | | | | | | |
| Agriculture | | | | | | | • |
| Architecture | | | | | | | |
| Biological Sciences | | | | | | | |
| Business and Commerce | | | | | | | |
| City Planning | | | | | | | |
| Computer Science and Systems Analysis | | | | | | | |
| Education | | | | | | | |
| Engineering | | | | | | | |
| | | | | | | | |

Total

| | • | Univ | University Of Missouri | souri | | | | |
|------------------|------------------------|-------|------------------------|-----------|-------|------------|---------------------------------------------------------|-------|
| Program Level | | | | | Sub- | St. Louis | Sub- St. Louis Washington | |
| And Subject Area | Columbia Rolla Kar | Rolla | Kansas City | St. Louis | total | University | nsas City St. Louis total University University Total | Total |
| | | | | | | | | |

Doctoral (Cont'd)

English and Journalism

Fine and Applied Arts

Folklore

Foreign Languages and Literature

Forestry

Geography Health Professions

Home Economics

Law

Library Science

Mathematical Subjects

Philosophy Physical Sciences

Records Management Psychology

Religion

Social Sciences Broad general curriculums and miscellaneous fields Subtotal

Total All Program Levels

COURSES OFFERED BY FIELDS OF STUDY AT THE PUBLIC UNIVERSITY (Total Credit-Hours)

| Program Level, Subject Area | Item | | Universi | University Of Missouri | | |
|---------------------------------------|--------|----------|----------|----------------------------------------------------|----------------|------------|
| And Field Of Study | Number | Columbia | Rolla | Kansas City | St. Louis | Total |
| Associate - Terminal | | | | | | |
| Health Professions | 4400 | | | | | |
| Medical Technology | 4413 | | | | | |
| Nursing | 4419 | | | | | |
| Associate - Transfer | | | | | | |
| Biological Sciences | 1700 | | | | | |
| General Botany | 1707 | | | | | |
| Bachelor's | | | | | | |
| Computer Science and Systems Analysis | 2100 | | This is | This is an exception report. showing only | bort. showing | y only |
| Engineering | 2600 | | those fi | those fields of study in which courses are | which course | s are |
| Architectural Engineering | 2608 | | being | being offered, not all possible fields of study | ossible fields | of study |
| Electrical Engineering | 2632 | | D | | | - |
| Foreign Languages and Literature | 3500 | | | | | |
| French | 3520 | | | | | |
| Spanish | 3526 | | Other A | Other Available Versions | SU | |
| German | 3540 | | Indiv | Individual public institution by level of offering | itution by lev | rel of off |

PROPOSED FIELDS OF STUDY AT THE PUBLIC UNIVERSITY (Total Credit-Hours)

| Program Level, Subject Area | Item | | Universi | University Of Missouri | | |
|---------------------------------------|--------|----------|----------|----------------------------------------------------|-----------------|--------------|
| And Field Of Study | Number | Columbia | Rolla | Kansas City | St. Louis | Total |
| Associate - Terminal | | | • | | | |
| Engineering | 7600 | | | | | |
| General and other nonspecialized | | | | | | |
| engineering | 2647 | | | | | |
| Associate - Transfer | | | | | | |
| Biological Sciences | 1700 | | | | | |
| General Botany | 1707 | | | | | |
| Bachelor's | | | | | | |
| Computer Science and Systems Analysis | 2100 | | This is | This is an exception report, showing only | port, showing | only |
| Engineering | 2600 | | propose | proposed fields of study, not those | y, not those | |
| Environmental Health and Sanitary | | | current | currently being offered. | | |
| Engineering | 2646 | | | | | |
| Naval Architecture | 2674 | | | | | |
| Foreign Languages and Literature | 3 500 | | | | | |
| French | 3520 | | | | | |
| Portuguese | 3524 | | Other A | Other Available Versions | suc | |
| Chinese | 3564 | | Indiv | Individual public institution by level of offering | titution by lev | el of offeri |
| | | | | | | |

New Majors And Degrees Planned

D - RECORD LAYOUTS

Exhibit Number

III-10 Program Record

PROGRAM RECORD

| Punched | | | <i>a</i> |
|---------|------------------------------|--------------------------------------------|----------|
| Card | | | Code |
| Column | <u>Item</u> | <u>Data</u> | Number |
| 1-2 | Record type | Program record | 41 |
| 3 | Level of offering | Junior college | 1 |
| | | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5-6 | Institution code | | |
| 7-9 | Record date | Month and year | |
| 10-18 | Record identification number | Unique number | |
| 19-20 | Faculty rank | See Exhibit V-19 | |
| 21-24 | Field of study/ | Office of Education | |
| | curriculum | item number | |
| 25-26 | Program level and | Undergraduate | |
| | class | Freshman or first year of junior college | 01 |
| | | Sophomore or second year of junior college | 02 |
| | | Junior | 03 |
| | | Senior | 04 |
| | | First professional | 11 |
| | | Master's | 21 |
| | | Doctoral | |
| | | First year | 31 |
| | | Advanced | 32 |
| | | Thesis | 33 |
| | | Other postgraduate | 41 |
| | | Adult education | 51 |
| | | Correspondence | 61 |
| | | Other | 71 |



| Punched | | | |
|---------|--------------------------------|----------------------------------------|----------------|
| Card | | | Code |
| Column | <u>Item</u> | <u>Data</u> | Number |
| 27-28 | State professional | Primary professional | |
| | classification | First year | 11 |
| | | Second year | 12 |
| | | Third year | 13 |
| | | Fourth year | 14 |
| | | Advanced professional | |
| | | First year | 21 |
| | | Second year | 22 |
| | | Third year | 23 |
| | | Fourth year | 24 |
| 29-34 | Course number | Institution's own course number | |
| 35-44 | Course title | Institution's abbreviated course title | |
| 45-46 | Section number | Institution's section number | |
| 47-49 | Building code | | |
| 50-54 | Room number | | |
| 55 | Course type | Lecture | 1 |
| | , . | Laboratory | 2 |
| | | Independent study | 3 |
| 56-57 | Credit-hours | • | |
| 58-59 | Weekly contact-hours | | |
| 60-62 | Section size | Number of students in section | |
| 63 | First time field of | No | 1 |
| | study or curriculum offered | Yes | 2 |
| 64 | First time course | No | 1 |
| | offered | Yes | 2 |
| | | | _ _ |

IV - FINANCIAL INFORMATION SUBSYSTEM

ERIC Full fast Provided by ERIC

IV - FINANCIAL INFORMATION SUBSYSTEM

This chapter presents the financial information subsystem. Included in this subsystem are budget information and other financial data. Budget analyses are included to enable the Commission to carry out its responsibility for reviewing the budget recommendations of the State's higher education institutions.

Income and expenditures are measured in dollars per full-time-equivalent student to provide financial trends and comparisons between institutions of different sizes. Total State aid and student charges in higher education are compared among institutions within Missouri and in neighboring states.

The budget input will be provided by State higher education institutions. Income and expenditures data will be taken from HEGIS reports submitted by the institutions. Survey data from other states will be collected by the Commission.

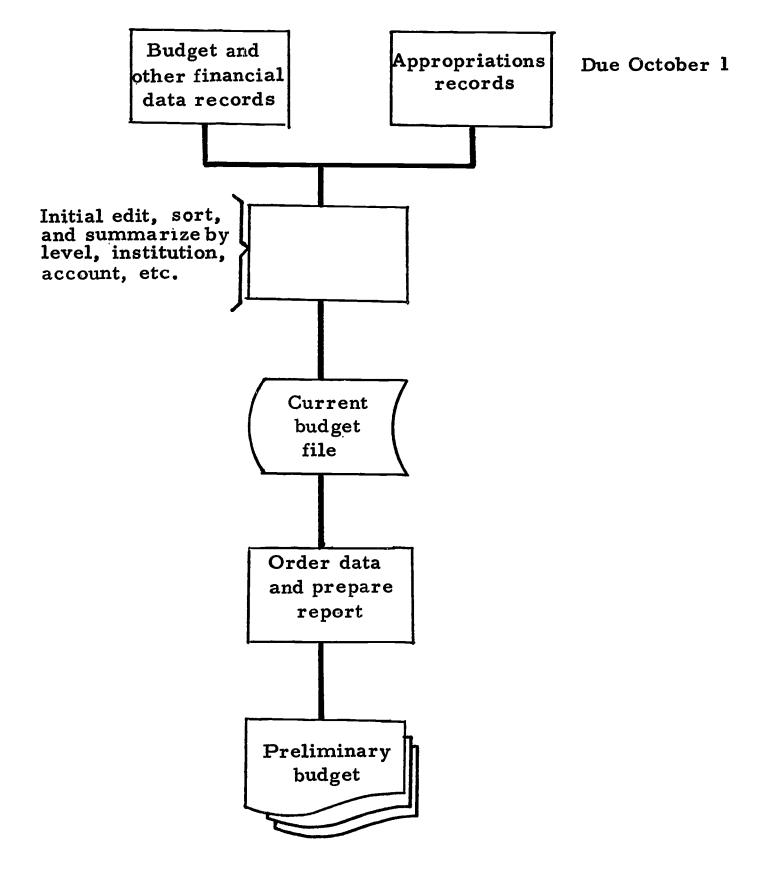
This chapter includes flow charts, planning and information report formats, and input record layouts.

ERIC

A - FLOW CHARTS

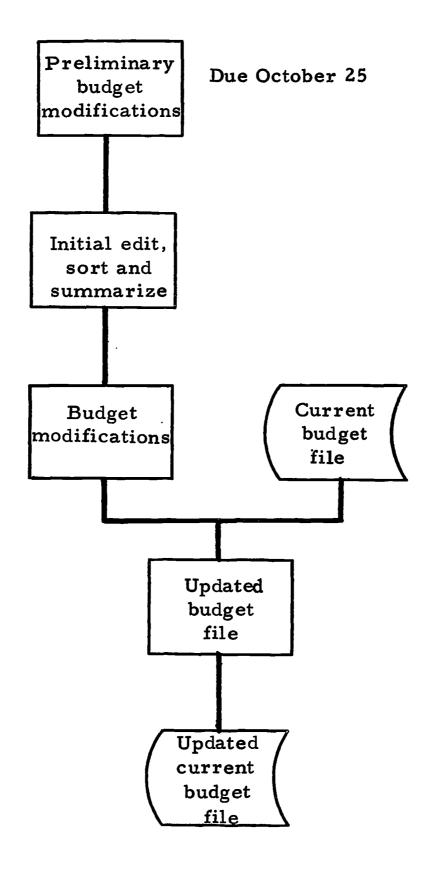
| Number | |
|--------|----------------------------------------------------------|
| IV-1 | Creating Current Budget File |
| IV-2 | Updating Current Budget File |
| IV-3 | Creating Initial Files Or Processing Fall Financial Data |
| IV-4 | Updating Financial History File |
| IV-5 | Processing Planning Reports |
| IV-6 | Processing Information Reports |

CREATING CURRENT BUDGET FILE



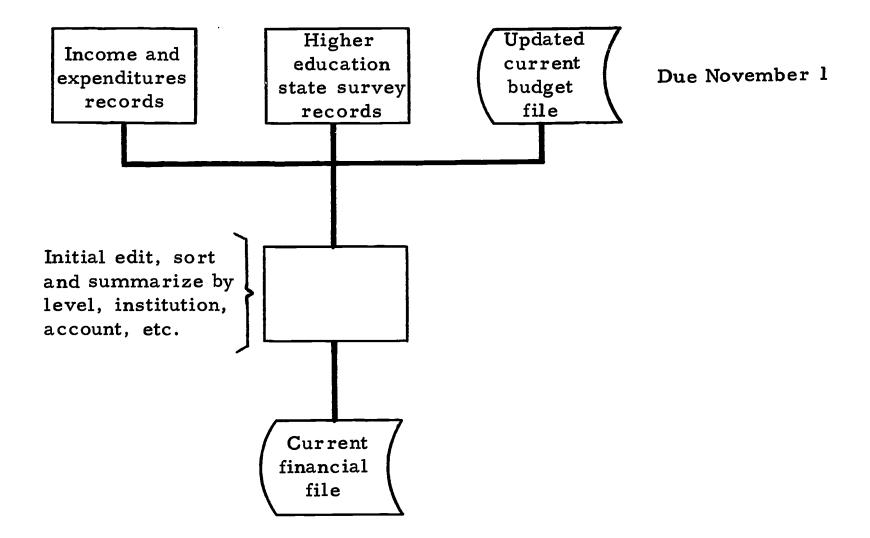


MISSOURI HIGHER EDUCATION UPDATING CURRENT BUDGET FILE



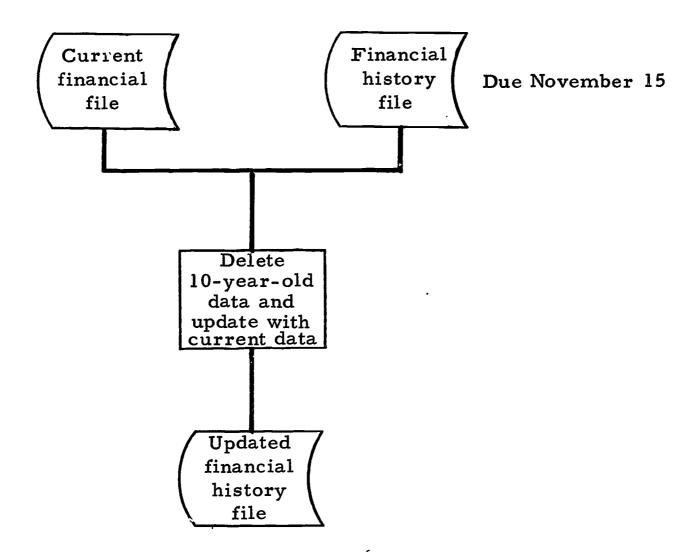
ERIC Full Text Provided by ERIC

CREATING INITIAL FILES OR PROCESSING FALL FINANCIAL DATA



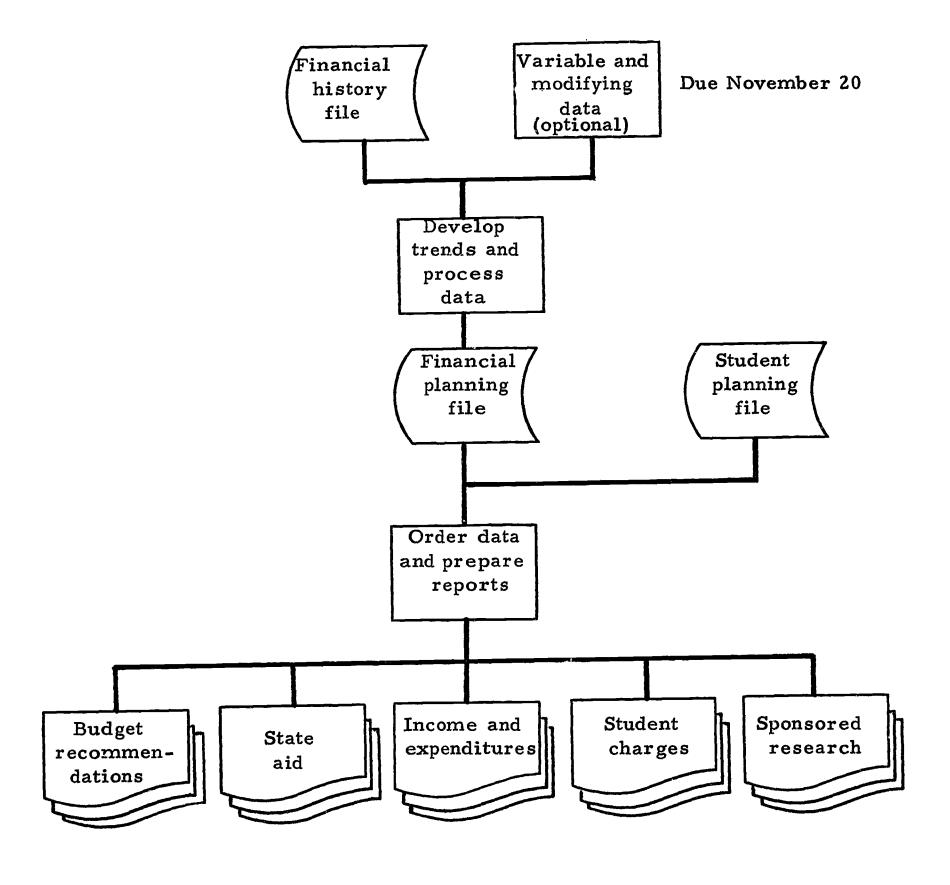
ERIC Full Text Provided by ERIC

MISSOURI HIGHER EDUCATION UPDATING FINANCIAL HISTORY FILE



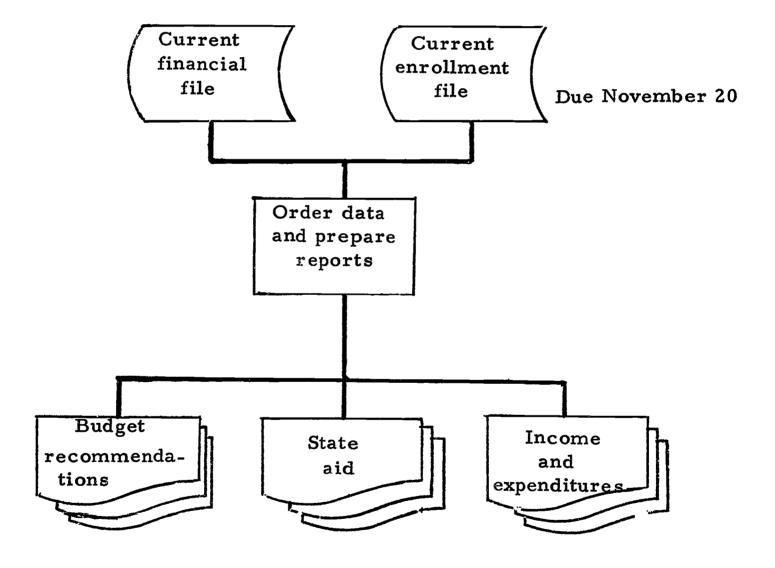


PROCESSING PLANNING REPORTS





MISSOURI HIGHER EDUCATION PROCESSING INFORMATION REPORTS



B - PLANNING REPORTS FOR FUTURE MISSOURI HIGHER EDUCATION

| Exhibit Number | |
|-------------------|--------------------------------------------------------------------------|
| IV-7 | Budget Recommendations Budget Recommendations At The Public University |
| IV-8 | State Aid To The Public University |
| .V-9 | Income And Expenditures Income And Expenditures At The Public University |
| IV-10 | Student Charges At Public Institutions |
| IV-11 | Sponsored Research Sponsored Research |

BUDGET RECOMMENDATIONS AT THE PUBLIC UNIVERSITY

(Thousands Of Dollars)

| | Past Actual | Current | | ۵ | Projected | ٦ | |
|-------------------|-------------|---------|------|------|-----------|------|------|
| Category | 1958 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |
| | | | | | | | |
| udget | | | | | | | |
| Personal services | | | | | | | |
| Faculty | | | | | | | |
| Lower division | | | | | | | |

Advanced professional and other graduate Primary professional Summer allowance Graduate division Upper division

University retirement plan Nonfaculty Other faculty Subtotal

Total Personal Services Other operating expenditures Grand Total

neral revenue funds lege funds Total Source Gener Colleg

Budgeted Dollars Per Student

Other Available Versions

Public junior colleges State colleges

Individual public institutions upon request

Per cent of total

STATE AID TO THE PUBLIC UNIVERSITY

| ategory | ast Ac | tual | Current | | Pr | ojected | d. | |
|---------|--------|------|---------|---------|------|---------|------|------|
| | 1 866 | 963 | 1968 | 1 696 T | 1970 | 1361 | 1975 | 8161 |

Operating Expenditures (%)
Personal services
Other operating expenditures
Total

Capital Expenditures(%)

Buildings

Educational and general
Auxiliary enterprises
Subtotal

Repairs and replacements
Educational and general
Auxiliary enterprises
Subtotal
Land
Total

Other Available Versions

1. State colleges

2. Public junior colleges

3. Individual public institutions upon request

Work assignments

Total

Grants

Student Aid (%)

100% 100% 100% 100% 100% 100% 100% 100% Total State Aid (%)

Total State Aid (\$000)

ERIC

| Projected | 1969 1970 1971 1973 1978 |
|---------------------|--------------------------|
| Past Actual Current | 1958 1963 1968 |
| Category | |

Total State Aid Per \$1,000 Of Personal Income In Missouri (\$) Average State Aid Per \$1,000 Of Personal Income In Surveyed States (\$)

Number Of Students

Aid Per Student (\$) (a)

Average Aid Per Student In Surveyed States (a)Excludes Universitywide programs, Agriculture Experimental Station and Medical Center.

INCOME AND EXPENDITURES AT THE PUBLIC UNIVERSITY (Per Cent Of Total)

| Category | Past Actual Current Projected 1958 1963 1969 1970 1973 1978 |
|--------------------------------------|-----------------------------------------------------------------------------|
| Current Income | -{ |
| High and goneral | |
| Student fees | |
| State and local government | |
| Federal appropriations | |
| Endowment earnings | |
| Private gifts | |
| Sponsored research | |
| Federal | Other Available Versions |
| Nonfederal | 1. State colleges |
| Other sponsored programs | 2. Public junior colleges |
| Federal | |
| Nonfederal | |
| Sales and other sources | |
| Subtotal | • |
| Auxiliary enterprises Student aid | |
| Total Current Income | |
| Per Cent | 100% 100% 100% 100% 100% 100% 100% 100% |
| Dollars (000) | |



| Category | Past / 1958 | Actual (| Current 1968 | 1 6961 | Pro 1970 | Projected | 1973 | 1978 |
|--------------------------------------------|-------------|----------|-----------------|--------|-------------|-----------|------|------|
| Current Expenditures | | | | - | - | | 21/2 | 0 |
| Education and general | | | | | | | | |
| Instruction and departmental research | | | | | | | | |
| Extension and public service | | | | | | | | |
| Libraries | | | | | | | | |
| Physical plant maintenance | | | | | | | | |
| General administration and general expense | | | | | | | | |
| Organized activities | | | | | | | | |
| Organized research | | | | | | | | |
| Other sponsored programs | | | | | | | | |
| All other education and general | | | | | | | | |
| Hospital | | | | | | | | |
| Crippled children's service | | | | | | | | |
| Subtotal | | | | | | | | |
| Auxiliary enterprises | | | | | | | | |
| Student aid | | | | | | | | |
| Total Current Expenditures | | | | | | | | |
| Per Cent | 100% | 100% | 100% | 100% | 100% 1 | 100% | 100% | 100% |
| Dollars (000) | | | | | | | | 2 |
| | | | | | | | | |

Surplus Or (Deficit) Of Current Income Over Current Expenditures (\$000)



STUDENT CHARGES AT PUBLIC INSTITUTIONS

| Projected | 1969 1970 1971 1973 1978 |
|---------------|--------------------------|
| Current | 1968 |
| Past Actual | 1958 1963 |
| Two Of Charge | 5 |

Tuition And Fees Per Resident Student Junior colleges

Missouri

Surveyed states

State colleges

Missouri

Surveyed states

Universities

Missouri Surveyed states Tuition And Fees Per Nonresident Student

Junior colleges

Missouri

Surveyed states

State colleges

Missouri

Surveyed states Universities Missouri Surveyed states

Other Available Versions

1. Private institutions

2. Individual public institutions by level of offering

| Type Of Charge | Actual | Current | | Д | Projected | | |
|----------------------------|-------------|---------|------|------|-----------|------|------|
| -7F-0-0mm280 | 1958 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |
| | | | | | | | |
| Room And Board Per Student | | | | | | | |
| Junior colleges | | | | | | | |
| Missouri | | | | | | | |
| Surveyed states | | | | | | | |
| State colleges | | | | | | | |
| Missouri | | | | | | | |
| Surveyed states | | | | | | | |
| Universities | | | | | | | |
| Missouri | | | | | | | |
| Surveyed states | | | | | | | |

SPONSORED RESEARCH (Per Cent Of Current Income)

| nt Projected | 1969 1970 1971 1973 1978 |
|----------------------|--------------------------|
| Curre | 1968 |
| Past Actual | 1958 1963 |
| Institution By Level | Of Offering And Control |

Public

Junior colleges

(detail list)

State colleges (detail list)

Public university

(detail list)

Private

Junior colleges (detail list)

Four-year colleges (detail list)

Universities (detail list)

Other Available Versions
This report format can be used

This report format can be used to compare any income or expenditure account.

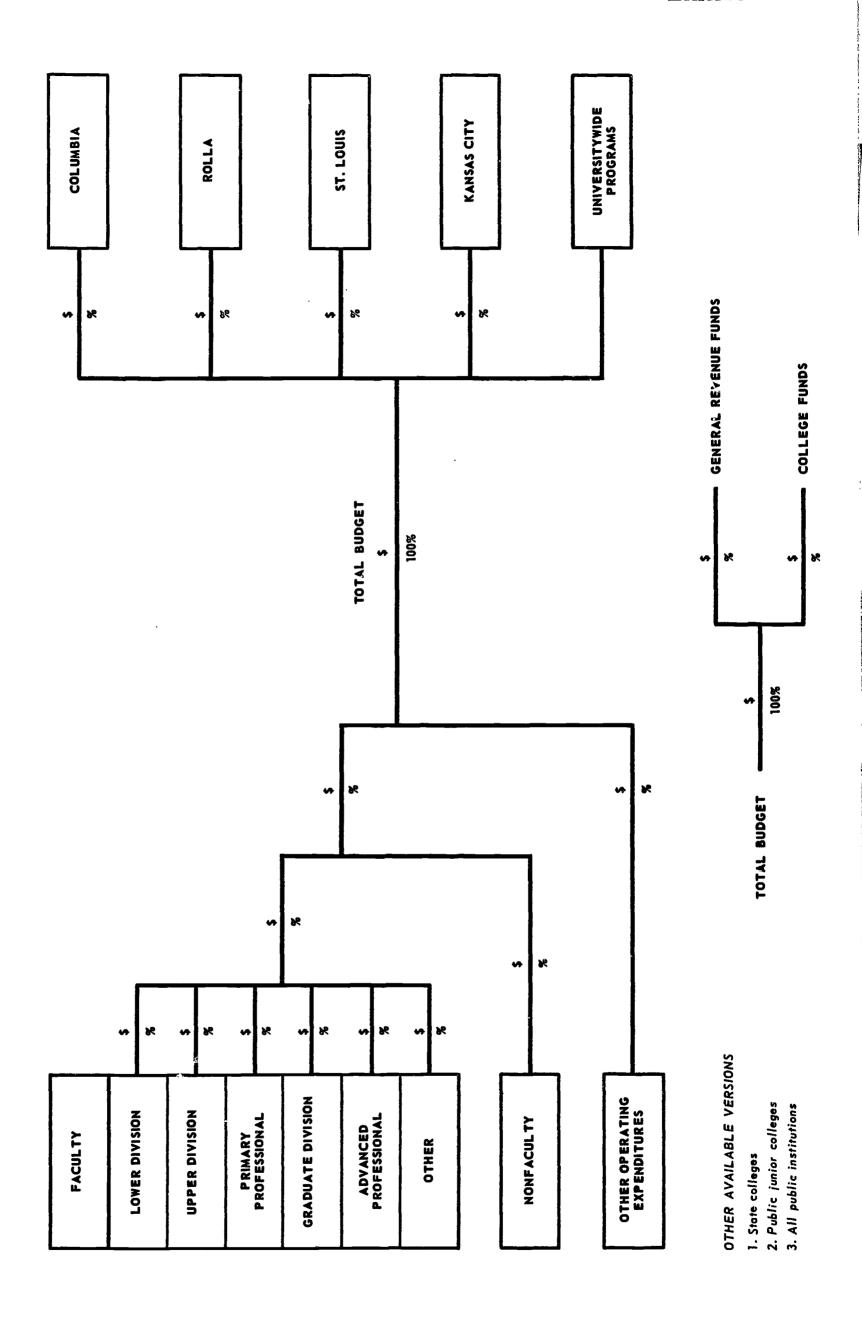
C - INFORMATION REPORTS ON CURRENT FINANCES

| Exhibit Number | |
|-------------------|----------------------------------------------------------|
| | Budget Recommendations |
| IV-12 | Budget Recommendation Breakdown At The Public University |
| IV-13 | Recommended Budget Of The Public University |
| IV - 14 | Detail Of Recommended Budget Of The Public University |
| | State Aid |
| IV-15 | State Aid To Public Institutions By Level Of Offering |
| | Income And Expenditures |
| IV-16 | Current Income And Expenditures |



MISSOURI HIGHER EDUCATION

BUDGET RECOMMENDATION BREAKDOWN
AT THE PUBLIC UNIVERSITY



RECOMMENDED BUDGET OF THE PUBLIC UNIVERSITY

| Category | Columbia | Univ Rolla | University Of Missouri la Kansas City St. I | souri St. Louis | Average |
|------------------------------------------|-------------|---------------|----------------------------------------------------|--------------------|---------|
| Budget(a) | | | | | |
| Faculty | | | | | |
| Lower division | | | | | |
| Upper division | | | | | |
| Primary professional | | | | | |
| Graduate division | | | | | |
| Advanced professional and other graduate | | | • | | |
| Summer allowance | | | | | |
| Other faculty | | | | | |
| Subtotal Faculty | | | | | |
| University retirement plan | Other A | vailable | Other Available Versions | | |
| Nonfaculty | ri | State c | State colleges | | |
| Total Personal Services | 2. | Public | Public junior colleges | S | |
| Per Cent | 3. | Total dollars | lollars | | |
| Dollars (000) | | | | | |
| Other operating expenditures | | | | | |
| Grand Total | 100% | 100% | 100% | 100% | 100% |
| Per Cent | | | | | |
| Dollars (000) | | | | | |
| Source | | | | | |
| General revenue funds | | | | | |
| College funds | 2001 | 800 | # O O F | 200 | 8 |
| Total | *00T | %00 T | *00T | %00T | %00T |
| Per Cent | | | • | | |
| Dollars (000) | | | | | |

Budgeted Dollars Per Student(a)

(a)Excludes Universitywide programs, Agriculture Experimental Station and Medical Center.

ERIC Full Text Provided by ERIC

DETAIL OF RECOMMENDED BUDGET OF THE PUBLIC UNIVERSITY

| | Budget Guideline | | | Appro- | Recommendation |
|---------------------------------------------|----------------------------|---------------------------------|-----------|----------|-----------------|
| Categorv | 1ty | | Recommen- | priation | As A Percentage |
| | Or Frojected Enrollment | Salary Or Amount Per Student | dation | Year | Appropriation |
| Budget | | | -(000\$) | | |
| Personal services | | | | | |
| Faculty | | | | | |
| Lower division | | | | | |
| Upper division | | | | | |
| Primary professional | | | | | |
| Graduate division | | | | | |
| Advanced professional | | | | | |
| and other graduate | | | | | |
| Summer allowance | | | | | |
| Other faculty | | | | | |
| Subtotal Faculty | | | | | |
| University retirement plan | п | | | | |
| Nonfaculty | | | | | |
| Total | | | | | |
| Other operating expenditures Grand Total | S | | | | |
| +32> + 3113+3 | | | | | |

College funds Total

Source General revenue funds

Other Available Versions State colleges .. 2 .. 5

Public junior colleges

Individual public institutions

Budgeted Dollars Per Student(a)

(a) Excludes Universitywide programs, Agriculture Experimental Station and Medical Center.



STATE AID TO PUBLIC INSTITUTIONS BY LEVEL OF OFFERING

| | | Public | lic | |
|----------|-------------------|--------|------------------|-------|
| Category | Junior | State | Iniversity Total | Total |
| | Colleges Colleges | | Ciiiv Ci Sity | 10.01 |

Operating Expenditures (\$000)
Personal services
Other operating expenditures
Total

Capital Expenditures (\$000) Buildings

Educational and general

Auxiliary enterprises Subtotal

Repairs and replacements Educational and general

Auxiliary enterprises

Subtotal

Total

Student Aid (\$000) Work assignments Grants

Total

Total State Aid (\$000)

Total State Aid Per \$1,000 Of
Personal Income In Missouri (\$000)

Average State Aid Per \$1,000 Of Personal Income In Surveyed States (\$000)

Other Available Versions

Public university campuses State colleges

Public junior colleges

| | | oniversity rotal |
|--------|----------|------------------|
| Public | itate | olleges |
| | Junior | Colleges C |
| | Category | |

Number Of Students

Aid Per Student (\$000)

Average Aid Per Student In Surveyed States (\$000)

ERIC

CURRENT INCOME AND EXPENDITURES

| Category | Tear En Columbia Rolla | University Of Missouri ear Ending June 30, 1968 Rolla Kansas St. Louis | Missouri e 30, 1968 St. Louis Average | St. Louis University Year Ending | Washington University Year Ending |
|----------------------------------------------|---------------------------|------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|-----------------------------------------|
| Current Income Education and general | | | | | |
| Student fees State and local government | | | | | |
| Federal appropriations Endowment earnings | | | | | |
| Private gifts | | | | | |
| Sponsored research | | | | | |
| Federal | | | | | |
| Nonfederal | | Other A | Other Available Versions | | |
| Other sponsored programs | | 1. | State colleges | | |
| Federal | | 2. | Public junior colleges | lleges | |
| Nonfederal | | ŕ | Private institutions by level of offering | ons by level of | f offering |
| Sales and other sources | | 4. | Total dollars | | |
| Subtotal | | 5. | Dollars per student | ent | |
| Auxiliary enterprises Student aid | | | | | |
| Total Current Income | | | | , | |
| Per Cent | 100% | 100% 100% | 100% 100% | 100% | 100% |
| Dollars (000) | | | | | |

| Category | | Unix | versity | University Of Missouri | uri | St. Louis | Washington |
|-----------------------------------------|----------------|------|----------------|------------------------|---------|-------------|------------------------|
| | Columbia Rolla | | Kansas City | | Average | Vear Ending | University Year Ending |
| Current Expenditures | | | | | | | |
| Education and general | | | | | | | |
| Instruction and departmental | | | | | | | |
| research | | | | | | | |
| Extension and public service | | | | | | | |
| Libraries | | | | | | | |
| Physical plant maintenance | | | | | | | |
| General administration and | | | | | | | |
| general expense | | | | | | | |
| Organized activities | | | | | | | |
| Organized research | | | | | | | |
| Other sponsored programs | | | | | | | |
| All other education and general | | | | | | | |
| Hospital | | | | | | | |
| Crippled children's service | | | | | | | |
| Subtotal | | | | | | | |
| Auxiliary enterprises | | | | | | | |
| Student aid | | | | | | | |
| Total Current Expenditures | | | | | | | |
| Per Cent | 100% | 100% | 1000 | 1000 | 300 | | |
| Dollars (000) | | 200 | %001 | 100% | %00T | 100% | 100% |
| | | | | | | | |
| Income Over Current | | | | | | | |
| Expenditures (\$000) | | | | | | | |
| / A A A A A A A A A A A A A A A A A A A | | | | | | | |

ERIC

D - RECORD LAYOUTS

| Exhibit Number | |
|-------------------|----------------------------------------|
| IV-17 | Income Record |
| IV-18 | Expenditures Record |
| IV-19 | Budget And Other Financial Data Record |
| IV-20 | Appropriations Record |
| IV-21 | Higher Education State Survey Record |

MISSOURI HIGHER EDUCATION INCOME RECORD

| Punched | | | |
|---------|------------------------------------|---------------------------|--------|
| Card | _ | | Code |
| Column | <u>Item</u> | <u>Data</u> | Number |
| 1-2 | Record type | Income record | 12 |
| 3 | Level of offering | Junior college | 1 |
| | | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5 - 6 | Institution code | | |
| 7-9 | Record date | Month and year | |
| | CURRENT INCOME | | |
| 10-17 | Student fees | Whole dollar amount | |
| 18-25 | State and local government | Whole dollar amount | |
| 26-33 | Federal appropriations | Whole dollar amount | |
| 34-41 | Endowment earnings | Whole dollar amount | |
| 42-49 | Private gifts | Whole dollar amount | |
| 50-57 | Sponsored research - federal | Whole dollar amount | |
| 58-65 | Sponsored research - nonfederal | Whole dollar amount | |
| 66-73 | Other sponsored programs - federal | Whole dollar amount | |



| Punched Card Column | <u>Item</u> | Data | Code <u>Number</u> |
|---------------------------|---------------------------------------|---------------------|-----------------------|
| 1-2 | Record type | Income record | 13 |
| 3-4 | Institution code | | |
| 5 - 7 | Record date | Month and year | |
| | CURRENT INCOME (Cont'd) | | |
| 8-15 | Other sponsored programs - nonfederal | Whole dollar amount | |
| 16-23 | Sales and other sources | Whole dollar amount | |
| 24-31 | Auxiliary enterprises | Whole dollar amount | |
| 32 - 39 | Student aid | Whole dollar amount | |

Note: Income data will be taken from Higher Education General Information Survey (HEGIS) Form OE-2300-4.



EXPENDITURES RECORD

| Punched | | | |
|---------|---------------------------------------------|---------------------------|--------|
| Card | | | Code |
| Column | <u>Item</u> | Data | Number |
| 1-2 | Record type | Expenditures record | 14 |
| 3 | Level of offering | Junior college | 1 |
| | | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| _ | 0 01101 01 | Private | 2 |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5 - 6 | Institution code | other | O |
| 7-9 | Record date | Month and year | |
| . , | 1.00014 4400 | wonth and year | |
| | CURRENT EXPENDITURES | | |
| 10-17 | Instruction and departmental research | Whole dollar amount | |
| 18-25 | Extension and public service | Whole dollar amount | |
| 26-33 | Libraries | Whole dollar amount | |
| 34-41 | Physical plant maintenance | Whole dollar amount | |
| 42 - 49 | General administration and general expenses | Whole dollar amount | |
| 50-57 | Organized activities | Whole dollar amount | |
| 58-65 | Organized research | Whole dollar amount | |
| 66-73 | Other sponsored programs | Whole dollar amount | |



| Punched Card Column | Item | Data | Code Number |
|---------------------------|---------------------------------|---------------------|----------------|
| | | | |
| 1-2 | Record type | Expenditures record | 15 |
| 3-4 | Institution code | | |
| 5 – 7 | Record date | Month and year | |
| | CURRENT EXPENDITURES (C | Cont'd) | |
| 8-15 | All other education and general | Whole dollar amount | |
| 16-23 | Hospital | Whole dollar amount | |
| 24-31 | Crippled children's service | Whole dollar amount | |
| 32 - 39 | Auxiliary enterprises | Whole dollar amount | |
| 40-47 | Student aid | Whole dollar amount | |

Note: Expenditures data will be taken from Higher Education General Information Survey (HEGIS) Form OE-2300-4.



BUDGET AND OTHER FINANCIAL DATA RECORD

| Punched | | | |
|-----------------|-----------------------------------|---------------------------|--------|
| \mathtt{Card} | | | Code |
| Column | <u>Item</u> | <u>Data</u> | Number |
| 1 -2 | Record type | Budget record | 20 |
| 3 | Level of offering | Junior college | 1 |
| | 6 | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5 -6 | Institution code | | |
| 7 -9 | Record date | Month and year | |
| 10-17 | Faculty - lower division | Whole dollar amount | |
| 18-25 | Faculty - upper division | Whole dollar amount | |
| 26 -32 | Faculty - primary profes - sional | Whole dollar amount | |
| 33 - 39 | Faculty - graduate division | Whole dollar amount | |
| 40-47 | Faculty - advanced profes- | | |
| | sional and other graduate | Whole dollar amount | |
| 48-54 | Faculty - summer allowance | Whole dollar amount | |
| 55 - 62 | Faculty - other faculty | Whole dollar amount | |
| 63 - 69 | University retirement plan | Whole dollar amount | |
| 70-77 | Nonfaculty | Whole dollar amount | |
| | | | |



| Punched Card Column | <u>Item</u> | <u>Data</u> | Code Number |
|---------------------------|---------------------------------------|---------------------|----------------|
| 1 -2 | Record type | Budget record | 21 |
| 3 -4 | Institution code | - | |
| 5-7 | Record date | Month and year | |
| 8-15 | Other operating expend - itures | Whole dollar amount | |
| 16-24 | General revenue funds | Whole dollar amount | |
| 25 - 32 | College funds | Whole dollar amount | |
| 33 - 36 | Resident tuition and fees | Whole dollar amount | |
| 37-40 | Nonresident tuition and fees | Whole dollar amount | |
| 41 -44 | Average annual room and board charges | Whole dollar amount | |

APPROPRIATIONS RECORD

| Punched Card | | | Code |
|-----------------|----------------------------------------------------|---------------------------|--------|
| Column | <u>Item</u> | Data | Number |
| 1-2 | Record type | Appropriations record | 22 |
| 3 | Level of offering | Junior college | 1 |
| 3 | never or orroring | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| - | 0 0 110 1 0 1 | Private | _ |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5-6 | Institution code | | J |
| 7-9 | Record date | Month and year | |
| 10-17 | Faculty - lower division | Whole dollar amount | |
| 18-25 | Faculty - upper division | Whole dollar amount | |
| 26-32 | Faculty - primary professional | Whole dollar amount | |
| 33-39 | Faculty - graduate division | Whole dollar amount | |
| 40-47 | Faculty - advanced professional and other graduate | Whole dollar amount | |
| 48-54 | Faculty - summer allowance | Whole dollar amount | |
| 55-62 | Faculty - other faculty | Whole dollar amount | |
| 63-69 | University retirement plan | Whole dollar amount | |
| 70-77 | Nonfaculty | Whole dollar amount | |

| Punched | | | |
|-----------------|---------------------------------------------------|-------------------------|------------|
| \mathtt{Card} | | | Code |
| Column | <u>Item</u> | <u>Data</u> | Number |
| | | | |
| 1-2 | Record type | Appropriations record | 2 3 |
| 3-4 | Institution code | | |
| 5-7 | Record date | Month and year | |
| 8-15 | Other operating expenditures | Whole dollar amount | |
| 16-24 | General revenue funds | Whole dollar amount | |
| 25-32 | College funds | Whole dollar amount | |
| 33-40 | Capital expenditures for buildings | Educational and general | |
| 41-47 | | Auxiliary enterprises | |
| 48-54 | Capital expenditures for repairs and replacements | Educational and general | |
| 55-61 | - | Auxiliary enterprises | |



HIGHER EDUCATION STATE SURVEY RECORD

| Punched | | | |
|-----------------|-------------------------------------------------------|---------------------------|--------|
| \mathtt{Card} | | | Code |
| Column | <u>Item</u> | Data | Number |
| 1-2 | Record type | State survey record | 24 |
| 3 | Level of offering | Junior college | 1 |
| | | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5-9 | Institution code | | |
| 10-12 | Record date | Month and year | |
| 13-24 | Total personal income in state | Whole dollar amount | |
| 25-32 | Total number of students enrolled in higher education | | |
| 33-42 | Total state aid to higher education | Whole dollar amount | |
| 43-52 | State aid - operating expenditures | Whole dollar amount | |
| 53-62 | State aid - capital expenditures | Whole dollar amount | |
| 63-73 | State aid - student aid | Whole dollar amount | |



| Punched | | | |
|---------|--------------------------------------------------------------|---------------------|--------|
| Card | | | Code |
| Column_ | <u>Item</u> | <u>Data</u> | Number |
| | | | |
| 1-2 | Record type | State survey record | 25 |
| 3 - 7 | Institution code | | |
| 8-10 | Record date | Month and year | |
| 11-21 | State aid - student loans | Whole dollar amount | |
| 22 - 32 | State aid - other | Whole dollar amount | |
| 33-36 | Average resident tuition - university | Whole dollar amount | |
| 37-40 | Average resident tuition - state colleges | Whole dollar amount | |
| 41-44 | Average resident tuition - junior colleges | Whole dollar amount | |
| 45-48 | Average nonresident tuition - university | Whole dollar amount | |
| 49-52 | Average nonresident tuition - state colleges | Whole dollar amount | |
| 53-56 | Average nonresident tuition - junior colleges | Whole dollar amount | |
| 57-60 | Average room and board charges per student - university | Whole dollar amount | |
| 61-64 | Average room and board charges per student - state colleges | Whole dollar amount | |
| 65 - 68 | Average room and board charges per student - junior colleges | Whole dollar amount | |



V - PERSONNEL INFORMATION SUBSYSTEM



V - PERSONNEL INFORMATION SUBSYSTEM

1

This chapter describes the personnel information subsystem, which includes faculty, administrative and nonprofessional employees. This subsystem will provide a comprehensive view of all higher education employees in the State. Data concerning faculty and other professional employees will be presented in greater detail than data for nonprofessional employees.

Analyses will be prepared for professional employees showing primary function, subject area, utilization and workload, and individual characteristics. These reports will include nonprofessional employees where appropriate.

Detailed input records will be prepared by each institution for faculty and other professional employees. As in the student subsystem, individual identity is not required, but a unique number is needed for controlling the input. Non-professional employees will be reported on a summary basis by employee classification.

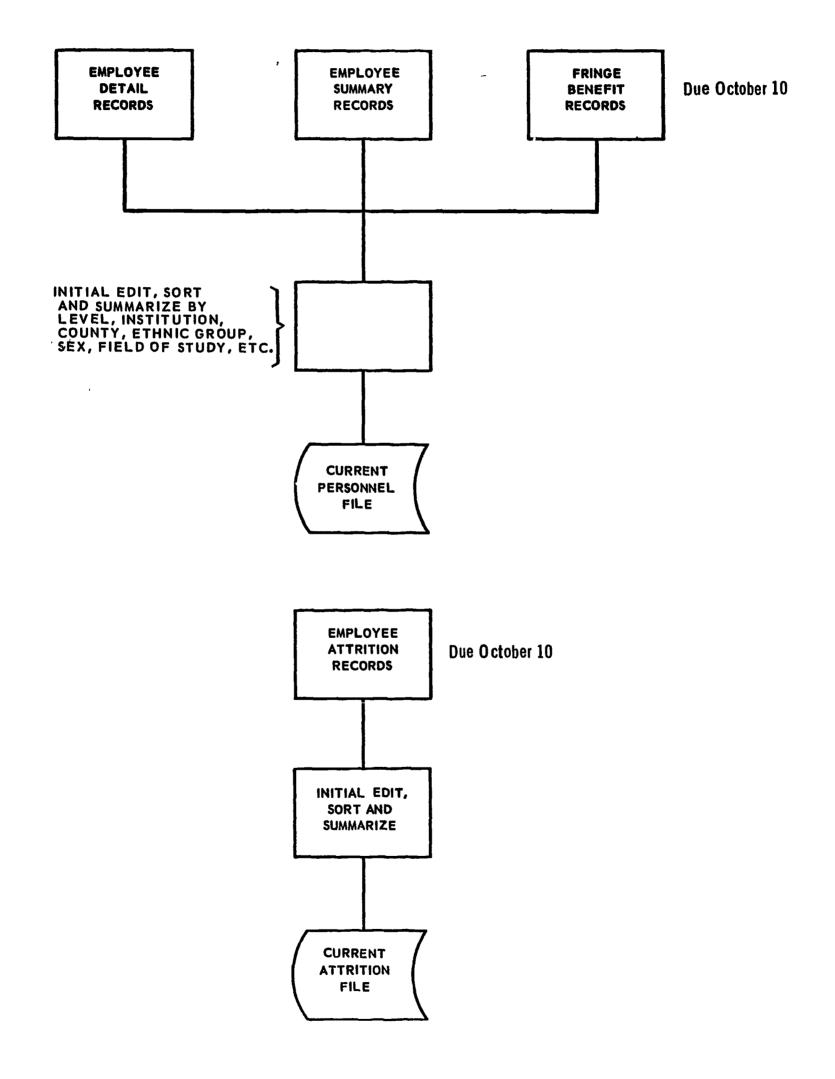
The description which follows includes flow charts, planning and information report formats, and input record layouts.



A - FLOW CHARTS

| Exhibit Number | |
|-------------------|----------------------------------------------------------|
| V-1 | Creating Initial Files Or Processing Fall Personnel Data |
| V-2 | Updating Personnel And Attrition History Files |
| V-3 | Processing Planning Reports |
| V-4 | Processing Information Reports |

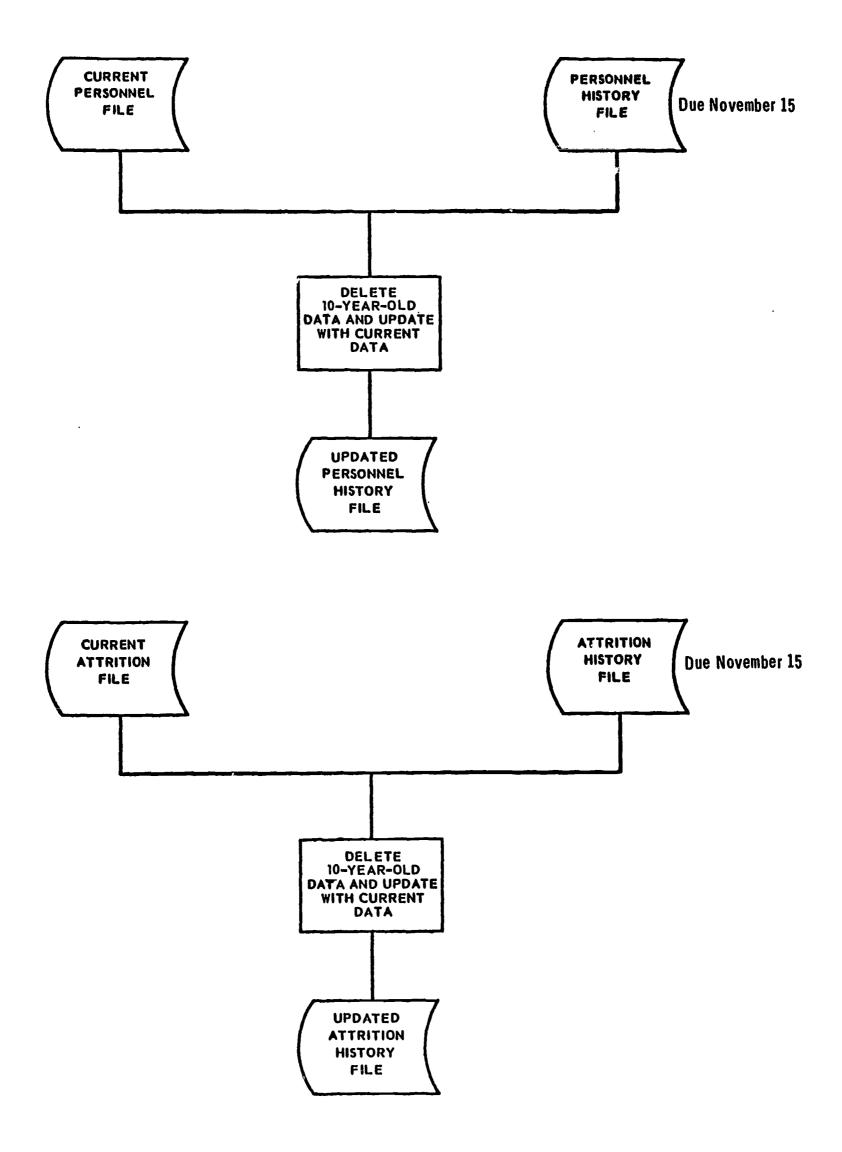
CREATING INITIAL FILES OR PROCESSING FALL PERSONNEL DATA





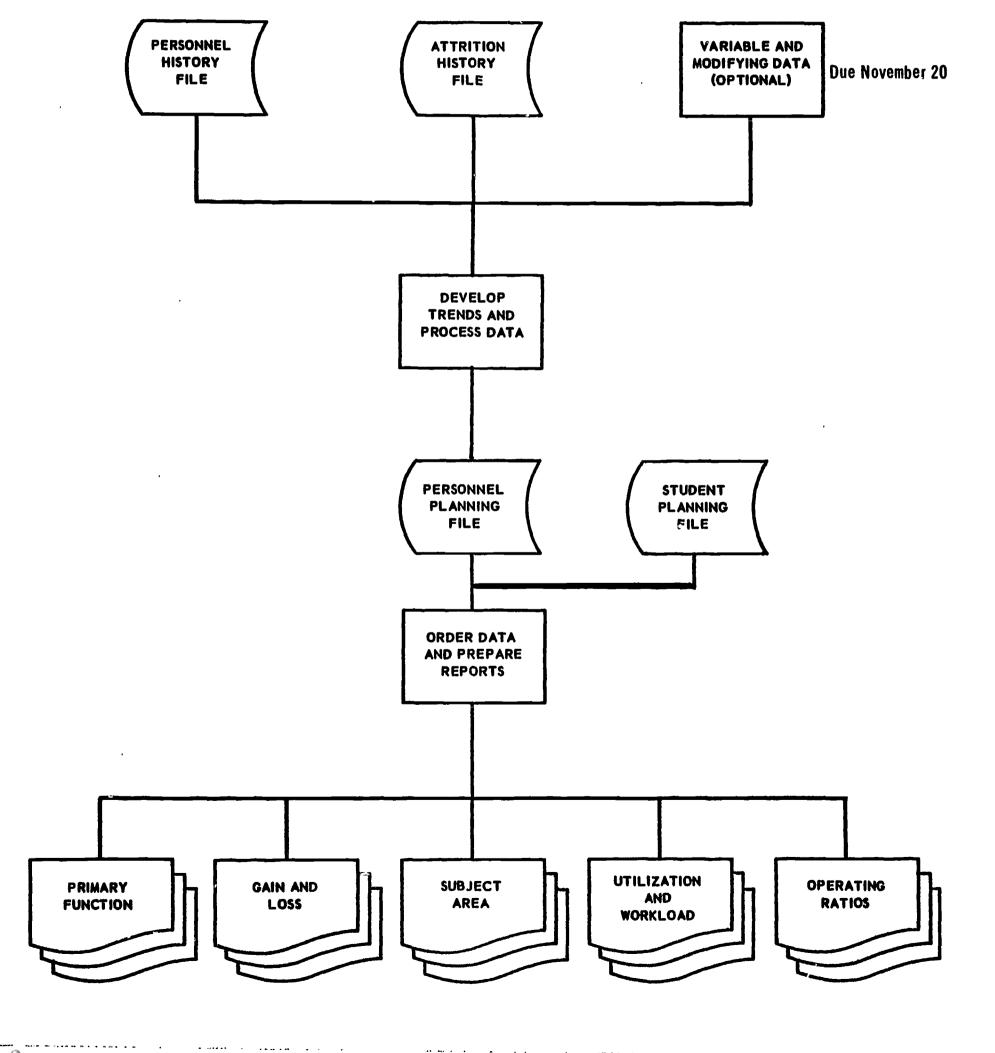
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UPDATING PERSONNEL AND ATTRITION HISTORY FILES



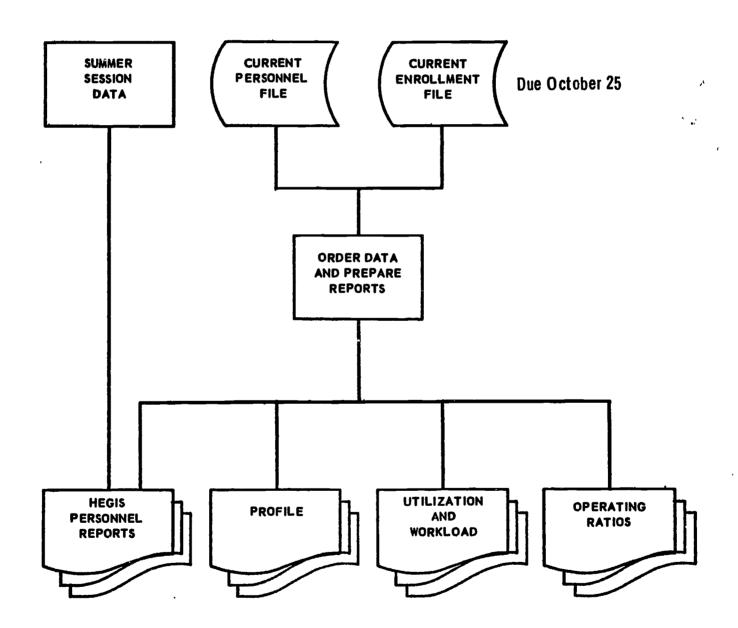


PROCESSING PLANNING REPORTS





MISSOURI HIGHER EDUCATION PROCESSING INFORMATION REPORTS



B - PLANNING REPORTS FOR FUTURE MISSOURI HIGHER EDUCATION

| Exhibit Number | |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|
| v - 5 v - 6 | Primary Function Primary Function Of Full-Time Personnel Average Annual Salary Of Full-Time Staff At The Public University |
| V-7 | Gain And Loss Gain And Loss Of Full-Time Instructional Staff At The Public University |
| V-8 | Subject Area Instructional Staff By Subject Area At The Public University |
| V-9 | Utilization And Workload Utilization And Workload Of Full-Time Instructional Staff |
| V-10 | Operating Ratios Operating Ratios At The Public University Of Full-Time-Equivalent Staff |



PRIMARY FUNCTION OF FULL-TIME PERSONNEL (Per Cent Of Full-Time Staff)

| Past | t Actual | Current | | | Projected | | |
|-----------------------|----------|---------|------|------|-----------|------|------|
| Primary Function 1958 | 3 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |

Associate Professors Assistant Professors Academic Deans Junior staff Other Administration Professors Instructors Instruction Professional

Subtotal

Extension and public service Auxiliary enterprises Organized research services Library Student Other

Total Professionals

Other Available Versions 1. Numbers of full-time staff upon request

- Level of offering

 - Level of offering and control Per cent of FTE staff
- Individual public institutions upon request

| | Past Actual | tual | Current | | | Projected | cted | | |
|-----------------------|-------------|--------------|---------|-------|-------|-----------|------|---------|-------|
| Primary Function | 1958 1 | 1963 | 1968 | 1969 | 1970 | 1971 | | 1973 | 1978 |
| | | | | | | | | | |
| | | | | | | | | | |
| Inprofessional | | | | | | | | | |
| Secretarial | | | | | | | | | |
| Instructional | | | | | | | | | |
| Other | | | | | | | | | |
| Clerical | | | | | | | | | |
| Maintenance | | | | | | | | | |
| Technical | | | | | | | | | |
| Total Nonprofessional | | • | | | | | | | |
| Grand Total | | B 00. | B001 | 1000 | 1000 | 1000, | g. | 100% | 100% |
| Per Cent | %00 ī | 1 00% | %00 i | 0/001 | 0/001 | 1 | 0 | 0/ 00 T | 9/001 |

Number of students

ERIC Foulded by ERIC

AVERAGE ANNUAL SALARY OF FULL-TIME-STAFF AT THE PUBLIC UNIVERSITY

Projected 1971 1970 Current Past Actual

1978

1973

1969

1968

1963

1958

Primary Function

Assistant Professors Academic Deans staff Administration Instructors Professors Instruction Junior Professional Other

Average

Extension and public service Auxiliary enterprises Organized research Student services Library Other

Average Professional

Other Available Versions

State colleges

Public junior colleges Level of offering 3.

FTE staff 4.5

Individual public institutions upon request

| | Past Actual | Current | | | Projected | 7 | |
|------------------|-------------|---------|------|------|-----------|------|------|
| Primary Function | 1958 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |

Nonprofessional Secretarial

Instructional

Other Clerical

Maintenance Technical

Average Nonprofessional Average Personnel

Total Number Of Personnel

GAIN AND LOSS OF FULL-TIME INSTRUCTIONAL STAFF AT THE PUBLIC UNIVERSITY

(Years Ending August 30)

| | Past Actua | Past Actual | Current | | | Projected | - | | |
|----------|------------|-------------|---------|------|------|-----------|------|------|--|
| Category | 1958 1 | 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 | |

Beginning Of Year Total

Gains

From other Missouri institutions Transfers

From other countries From other states

Subtotal

First-time teaching Leaves and sabbaticals Total Gains Grand Total Beginning And Gains

Losses Transfers

To other Missouri institutions

To other countries To other states

Subtotal

Other reasons for leaving Retirement or death Other occupation Further study

Subtotal

Other

Leaves and sabbaticals Total Losses End Of Year Total

Other Available Versions

- State college 1:
- Private institutions by level of offering Public junior colleges
- Transfers to and from individual Missouri institutions upon request
 - Transfers to and from individual states or countries upon request ъ.
- Rank upon request 9

INSTRUCTIONAL STAFF BY SUBJECT AREA AT THE PUBLIC UNIVERSITY (Per Cent Of Full-Time-Equivalent Instructional Staff)

| | Itam | Doc+ Actual | 71144020 | | Q | Ductod | | |
|------------------------|--------|-------------|--------------------------|------------------------|---------------------------------------------|-----------|---------|------|
| Subject Area | Number | | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |
| | | | | | | | | |
| Agriculture | 1000 | | | | | | | |
| Architecture | 1400 | | | | | | | |
| Biological Science | 1700 | | | | | | | |
| Business And Commerce | 2000 | | | | | | | |
| City Planning | 1500 | | | | | | | |
| Computer Science And | 2100 | | | | | | | |
| System Analysis | | | | | | | | |
| Education | 2300 | | | | | | | |
| Engineering | 2600 | | | | | | | |
| English And Journalism | 2900 | | | | | | | |
| Fine And Applied Arts | 3200 | | | | | | | |
| Folklore | 3300 | | | | | | | |
| Foreign Language And | 3500 | | | | | | | |
| Literature | | • | | | | | | |
| Forestry | 3800 | | | | | | | |
| Geography | 4100 | | | | | | | |
| Health Professions | 4400 | | | | | | | |
| Home Economics | 4700 | | ! | • | | | | |
| Law | 2000 | | Other Available Versions | able Versi | ons | | ; | |
| Library Science | 5300 | | - | State colleges | ; | | | |
| Mathematical Subjects | 2600 | | _ | Public junior colleges | colleges | • | | |
| Philosophy | 6500 | | | vate instit | Private institutions by level of offering | vel of o | itering | |
| Physical Sciences | 0089 | | | cent of fu | Per cent of full-time staff upon request | i nodn ii | equest | |
| Psychology | 7100 | | 5. Indi | vidual pub | Individual public institutions upon request | odn suo | requesi | -'a∤ |
| Records Management | 7300 | | | ds ot stud | Fields of study upon request | lest | | ge |
| Religion | 7400 | | | | | | | 1 |
|) | | | | | | | | C |

| | Item | Past Actual | ပ် | Current | | | Projected | | |
|--------------------------------------------------------------------------|--------|-------------|------|---------|------|------|-----------|------|------|
| Subject Area | Number | 1958 1963 | | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |
| Social Sciences Broad General Curriculums And Miscellaneous Fields | 7700 | | | | | | | | |
| Total Per Cent Number | | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

UTILIZATION AND WORKLOAD OF FULL-TIME INSTRUCTIONAL STAFF

| Utilization And | Past A | ctual | Current | | | Projected | þ | |
|------------------|--------|-------|---------|------|------|-----------|------|--|
| | 0.00 | 2,00 | • | | | , | | |
| Workload Measure | 1958 | 1963 | 1968 | 6961 | 1970 | 1071 | 1073 | |
| | | | | /2/- | 2/10 | 71/7 | 1717 | |

1978

Public Junior Colleges

Average scheduled hours per
faculty member
Instruction
Administration
Departmental research
Organized research
Other
Total

Workload
Contact-hours per
faculty member
Credit-hours per
faculty member

State Colleges

Average scheduled hours per
faculty member
instruction
Administration
Departmental research
Organized research
Other

Workload
Contact-hours per faculty
member
Credit-hours per faculty
member

Other Available Versions

1. Private institutions by level of offering

. Rank upon request

. Subject area upon request

4. Individual public institutions

upon request

| Utilization And | Past Actual | Current | | | Projecte | P | |
|------------------|-------------|---------|------|------|----------|------|------|
| Workload Measure | 1958 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |
| <u> </u> | | | | | | | |

Public University
Average scheduled hours per faculty member

Instruction Administration Departmental research Organized research

Other

Total

Workload

Contact-hours per faculty member

Credit-hours per faculty

member

ERIC

OPERATING RATIOS OF FULL-TIME-EQUIVALENT STAFF AT THE PUBLIC UNIVERSITY

| | 1978 |
|-----------|----------|
| p | 1973 |
| Projected | 1971 |
| | 1970 |
| | 1969 |
| Current | 1968 |
| Actual | 1963 |
| Past. | 1958 |
| | Category |

Student/Faculty

Associate - terminal/faculty

Associate - transfer/faculty

Bachelor's/faculty

First professional/faculty

Master's/faculty

Master's/lacuity Doctoral/facuity

Overall Student/Faculty Ratio

Student/Support Staff

Student/library Undergraduate students

Graduate students

Student/student services

Student/auxiliary enterprises Student/administration

Overall Student/Support Staff Ratio

Faculty/Support Stati

Faculty/library

Faculty/secretarial

Faculty/administration Overall Faculty/Support Staff Ratio

Number Of Faculty

Number Of Students

Other Available Versions

1. State colleges

2. Public junior colleges

3. Private institutions by level of offering

4. Individual public institutions upon request

C - INFORMATION REPORTS ON CURRENT PERSONNEL

| Exhibit | |
|---------|--------------------------------------------------------------------------------|
| Number | |
| | Profile |
| V-11 | Profile By Primary Function |
| V-12 | Average Annual Salaries Of Full-Time Personnel At The State Colleges |
| V-13 | Rank Of Full-Time Instructional Staff By Subject Area At The Public University |
| V-14 | Profile Of Personnel Attributes |
| V-15 | Fringe Benefits |
| | Utilization And Workload |
| V-16 | Utilization And Workload Of Full-Time Instructional |
| | Staff At The Public University |
| | Operating Ratios |
| V-17 | Operating Ratios Of Full-Time-Equivalent Staff |



PROFILE BY PRIMARY FUNCTION (Per Cent Of Full-Time Staff)

| | | Total |
|---------|------------------|--------------------------------------|
| | | Subtota1 |
| Private | | Colleges Universities Subtotal Total |
| Pri | Junior Four-Year | Colleges |
| | Junior | y Subtotal Colleges |
| | | Subtotal |
| Public | | Colleges Colleges University |
| Pu | State | Colleges |
| | Junior | Colleges |
| | | Primary Function |

Administration Professional

Instruction

Academic Deans Professors

Associate Professors

Assistant Professors

staff Instructors Junior

Other

Subtotal

research Organized Library and public service Extension

enterprises Student services Auxiliary

Other

Total Professional

Other Available Versions

1. Individual public institutions by level of offering
2. FTE staff upon request
3. Part_time staff upon

Part-time staff upon request

| | Total | | 100% |
|---------|-----------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------|
| | Subtotal Total | | 100% |
| Private | Universities | | 100% |
| Pri | Four-Year Colleges | | 100% |
| | | | 100% |
| | Subtota1 | | 100% |
| Public | University Subtotal Colleges | | 100% |
| Pu | | | 100% |
| | Junior State Colleges Colleges | | 100% |
| | Primary Function | Nonprofessional Secretarial Instructional Other Clerical Maintenance Technical Total Nonprofessional | Grand Total Per Cent Number |

ERIC Full Text Provided by ERIC

ŧ

AVERAGE ANNUAL SALARIES OF FULL-TIME PERSONNEL AT THE STATE COLLEGES

| <u> </u> | Central | Northeast | 1 | | Southwest | Lincoln | |
|------------------------------|----------|-----------|--------------------|------------------------|-------------------------------|------------|---------|
| Frimary Function | Missouri | Missouri | Missouri | Missouri | Missouri | University | Average |
| Professional | | | | | | | |
| Administration | | | | | | | |
| Instruction | | | | | | | |
| Academic Deans | | | | | | | |
| Professors | | | | | | | |
| Associate Professors | | | | | | | |
| Assistant Professors | | | | | | | |
| Instructors | | | | | | | |
| Junior staff | | | | | | | |
| Other | | | | | | | |
| Average | | | | | | | |
| Organized research | | | | | | | |
| Library | | | | | | | |
| Extension and public service | | | | | | | |
| Auxiliary enterprises | | | | | | | |
| Student services | | | | | | | ·. |
| Other | | | | | | | |
| Average Professional | | | | | | | |
| Nonprofessional | | | | | | | |
| Secretarial | | | | | | | |
| Instructional | | | | | | | |
| Other | | Other | Available Versions | Fersions | | | |
| Clerical | | | | Public university | | | |
| Maintenance | | 2. | | Public junior colleges | es | | |
| Technical | | 3. | | Part-time personnel | | | |
| Average Nonprofessional | | 4. | Years of | service up | Years of service upon request | | |
| | | | | | ! | | |

Average All Personnel

RANK OF FULL-TIME INSTRUCTIONAL STAFF BY SUBJECT AREA AT THE PUBLIC UNIVERSITY

| Agriculture Architecture Biological Science | Number | Academic Deans | Professors | Associate Professors | Assistant Professors | Instructors | Junior Staff | Other | Instructional Staff |
|---------------------------------------------|--------|-------------------|------------|-------------------------|--------------------------|-----------------------------------------|-----------------|-------|------------------------|
| ience | 1000 | | | | | | | | |
| | 1400 | | | | | | | | |
| | 1700 | | | | | | | | |
| merce | 2000 | | | | | | | | |
| | 1500 | | | | | | | | |
| Computer Science And | | | | | | | | | |
| | 2100 | | | | | | | | |
| Education 2 | 2300 | | | | | | | | |
| Engineering 2 | 2600 | | | | | | | | |
| Journalism | 2900 | | | | | | | | |
| | 3200 | | | | | | | | |
| | 3300 | | | | | | | | |
| Foreign Language And | | | | | | | | | |
| | 3500 | | | | | | | | |
| Forestry 3 | 3800 | | | | | | | | |
| Geography 4 | 4100 | | | | | | | | |
| | 4400 | | | | | | | | |
| | 4700 | | | Other Arras | Other Amailable Wassian | | | | |
| Law 5 | 5000 | | | 1 8+2+ | radie versi | lons | | | |
| Library Science 5 | 5300 | | | | Dublic incides | ; ; | | | |
| lbjects | 2600 | | | 2. Tub. | r ubiic juiilor colleges | orreges | • | • | |
| | 6500 | | | | de institut | Fishe institutions by level of offering | ot offer | ing | P |
| ciences | 0089 | | | | as of study | r ieias oi stuay upon request | | | XH age |
| | 7100 | | | | | | | | IB e 1 |

| Subject Area | Item Number | Academic Deans | Professors | Associate Assistant Professors Professors | Instructors | Junior Staff | Other | Total Other Instructional |
|--------------------------------------------------|----------------|-------------------|------------|-------------------------------------------|-----------------|-----------------|-------|---------------------------|
| Records Management | 7300 | | | | | | | |
| Keligion Social Sciences | 7400 7700 | | | | | | | |
| Broad General Curric- ulums And Miscellaneous | | | | | | | | |
| Fields | 8300 | | | | | | 1 | |

PROFILE OF PERSONNEL ATTRIBUTES (Per Cent Of Full-Time Instructional Staff)

| Private | | Universities Subtotal 1 otal |
|---------|--------------------|----------------------------------|
| Pri | Junior Four-Year | Colleges |
| | Junior | Subtotal Colleges |
| | | Subtotal |
| Public | | University |
| Pu | State | Colleges Colleges |
| | Junior | Colleges |
| | | Category |

Age Under 21

21-30 31-40

41-50

51-60 61-70

Over 70

Average

Ethnic Group

American Indian Negro Spanish American

Oriental

Other

Sex

Female Male

Other professional staff Other Available Versions

Nonprofessional staff

Individual public institutions by level of offering

Part-time staff upon request

. 6. 4

| Private | | Universities Subtotal Total |
|---------|------------------|-----------------------------------|
| Pr | Junior Four-Year | es Colleges U |
| | Junior | ubtotal Colleges |
| | | Subtotal |
| Public | | Colleges Colleges University Subt |
| Pu | State | Colleges |
| | Junior | Colleges |
| | | Category |

Highest Degree Master's Doctoral

First professional Bachelor's Associate

Other

Total Years Of Teaching Experience At This Institution

0-2 3-5 6-20

Over 20

Average

(Expenditures Per Covered Full-Time Faculty Member)

| | Overall | Average |
|---------|-----------|----------------------------------|
| | | Average |
| Private | | s Universities Average A |
| Pr | Four-Year | College |
| | Junior | rage Colleges |
| | | ve |
| Public | | Colleges Colleges University |
| | State | Colleges |
| | Junior | Colleges |
| | 1 | Fringe Benefit |

Retirement Plan

Vested

Not vested

Guaranteed Disability Hospitalization

Income Protection

Tuition Plan

Sabbatical Plan Housing Plan

Taxes (FICA) Social Security

Compensation Taxes Group Life Insurance Unemployment (

Total Fringe Benefits

Other Available Versions

Individual public institution by level of offering Faculty rank upon request

FULL-TIME INSTRUCTIONAL STAFF AT THE PUBLIC UNIVERSITY UTILIZATION AND WORKLOAD OF

| | Average |
|------------------------|------------------|
| | St. Louis |
| University Of Missonni | Kansas City |
| Ilniver | Rolla |
| | Columbia |
| Utilization And | Workload Measure |

Average Scheduled Hours Per Faculty Member

Instruction
Administration

Departmental research Organized research

Other

Total

Workload Per Faculty Member Contact-hours Credit-hours Other Available Versions

State colleges
 Public junior colleges

FULL-TIME-EQUIVALENT STAFF OPERATING RATIOS OF

| | | Overall |
|----------------|-----------|--------------------------------|
| | | Average |
| Private | | Universities Average |
| $\mathbf{P_r}$ | Four-Year | Colleges |
| | Junior | rage Colleges |
| Public | | ₹ve |
| | | Colleges Colleges University A |
| | State | Colleges |
| | Junior | Colleges |
| | | Category |

Student/Faculty

Associate - terminal/faculty

- transfer/faculty Associate

Bachelor's/faculty

essional/faculty First prof

Master's/faculty faculty Doctoral/

Overall Student/Faculty Ratio

Student/Support Staff

Student/administration

Student/library

Undergraduate students

Student/student services Graduate students

Overall Student/Support Staff Ratio Student/auxiliary enterprises

Faculty/Support Staff

Faculty/library

Faculty/administration Faculty/secretarial

Overall Faculty/Support Staff Ratio

Number Of Faculty

Number Of Students

Individual public institutions by Other Available Versions

level of offering

Full-time staff 2.

D - RECORD LAYOUTS

| Exhibit Number | |
|-------------------|--------------------------------------|
| V-18 | Employee Detail Record |
| V-19 | Personnel Primary Function Code List |
| V-20 | Employee Summary Record |
| V-21 | Employee Attrition Record |
| V-22 | Fringe Benefits Record |

EMPLOYEE DETAIL RECORD

| Punched Card | | | Code |
|-----------------|------------------------------|-------------------------------------------|----------|
| Column | <u>Item</u> | <u>Data</u> | Number |
| 1-2 | Record type | Employee record | |
| | ,, | Full-time professional staff | 04 |
| | | Part-time professional staff | 05 |
| 3 | Level of offering | Junior college | 1 |
| | _ | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5-6 | Institution code | | |
| 7-9 | Record date | Month and year | |
| 10-18 | Record identification number | Unique number | |
| 19-21 | Primary function | See Exhibit V-19 | |
| 22 | Sex | Male | ${f M}$ |
| | | Female | F |
| 23-24 | Year of birth | Last two digits of year of birth | |
| 25 | Ethnic group | American Indian | 1 |
| | | Negro | 2 |
| | | Oriental | 3 |
| | | Spanish American | 4 |
| | | Other | 5 |
| 26 | Marital status | Single | S |
| | | Married | M |
| 27-32 | Annual salary | Whole dollar amounts (annualize part-time | |
| 33 | Compensation | salaries) 9-10 months | 1 |
| <i>.</i> , . | period | 11-12 months | 2 |
| 34-35 | Service date | Last two digits of year joined | - |
| J-1 - J J | JOI VICE GALE | instructional staff | |

| Punched Card | | | Code |
|-----------------|----------------------|--------------------------------------|--------|
| Column | <u>Item</u> | <u>Data</u> | Number |
| 36 | Highest degree | Doctoral | 1 |
| | | Master's | 2 |
| | | First professional | 3 |
| | | Bachelor's | 4 |
| | | Associate | 5 |
| | | Other | 6 |
| 37-41 | Institution granting | Federal educational institution | |
| | highest degree | code | |
| 42-46 | Institution granting | Federal educational institution | |
| | first degree | code | |
| FACULTY | PERSONNEL ONLY | | |
| 47-48 | Year granted | Last two digits of year granted | |
| 17 10 | tenure | tenure | |
| 49-52 | Field of study | Office of Education Item | |
| -, 3 - | currently teaching | number | |
| 53-55 | Credit-hours | | |
| | currently teaching | | |
| 56-57 | Teaching contact- | Weekly hours scheduled | |
| | hours | | |
| 58-59 | Administration hours | Weekly hours scheduled | |
| 60-61 | Departmental | Weekly hours scheduled | |
| | research hours | | |
| 62-63 | Organized research | Weekly hours scheduled | |
| 64-65 | hours Other hours | Weekly hours scheduled | |
| 04-05 | Other hours | weekly hours scheduled | |
| NEW FAC | ULTY WITHIN LAST YEA | AR ONLY | |
| 66 | Transfer from | In state | 1 |
| | | Out of state | 2 |
| | | Out of country | 3 |
| 67-71 | Other college code | Federal educational institution code | |
| 72-74 | Foreign country | | |
| 75 | First time teaching | Yes | Y |
| | code | No | N |
| | | | |

PERSONNEL PRIMARY FUNCTION CODE LIST

| | Code |
|---------------------------------------|--------|
| <u>Item</u> | Number |
| | |
| Instruction and Departmental Research | |
| Professional | |
| Academic Deans | 001 |
| Professors | 002 |
| Associate Professors | 003 |
| Assistant Professors | 004 |
| Instructors | 005 |
| Junior staff | 006 |
| Other | 007 |
| Nonprofessional | |
| Secretarial | 008 |
| Clerical | 009 |
| Technical | 010 |
| Othe r | 011 |
| Organized Research | |
| Professional | |
| Academic Deans | 020 |
| Professors | 021 |
| Associate Professors | 022 |
| Assistant Professors | 023 |
| Instructors | 024 |
| Junior staff | 025 |
| Othe r | 026 |
| Nonprofessional | |
| Secretarial | 027 |
| Clerical | 028 |
| Technical | 029 |
| Othe r | 030 |
| Library | |
| Professional | |
| Professional librarian | 040 |
| Other | 041 |
| Nonprofessional | |
| Secretarial | 042 |
| Clerical | 043 |
| Technical | 044 |
| Othe r | 045 |
| | |

| <u>Item</u> | Code Number |
|--------------------------------------------------|----------------|
| Entered on and Dublin C | |
| Extension and Public Service | |
| Professional | 0 7 0 |
| Formal instruction | 050 |
| Consultation | 051 |
| Other | 052 |
| Nonprofessional Secretarial | 0 7 0 |
| Clerical | 053 |
| Technical | 054 |
| Other | 055 |
| Auxiliary Services | 056 |
| Professional | 060 |
| Nonprofessional | 060 |
| Secretarial | 061 |
| Clerical | 062 |
| Technical | 063 |
| Other | 064 |
| Schools Operated By The Institution | 004 |
| Professional | |
| Elementary schools | 065 |
| Secondary schools | 066 |
| Nonprofessional | |
| Secretarial | 067 |
| Clerical | 068 |
| Technical | 069 |
| Other | 070 |
| Student Services | |
| Professional | 075 |
| Nonprofessional | |
| Secretarial | 076 |
| Clerical | 077 |
| Technical | 078 |
| Other | 079 |
| Administration | |
| Professional | |
| President | 080 |
| Executive Vice President, General Administration | 081 |
| Director, Institutional Studies | 082 |
| Director, Planning | 083 |
| Dean or Vice President, Academic Administration | 084 |

| Item | Code Number |
|-----------------------------------------------------|----------------|
| Professional (Cont'd) | |
| Director, Audiovisual | 085 |
| Director, Evening School | 086 |
| Director, Extension (including adult) | 087 |
| Dean, Graduate Program | 088 |
| Administrator, Organized Research | 089 |
| Director, Summer Session(s) | 090 |
| Dean of Students | 091 |
| Director, Admissions | 092 |
| Director, College Union (Student Union) | 093 |
| Director or Advisor, Foreign Student Affairs | 094 |
| Registrar | 095 |
| Director, Student Aid | 096 |
| Director, Student Health | 097 |
| Dean of Men | 098 |
| Dean of Women | 099 |
| Vice President for Development and Public Relations | 100 |
| Alumni Secretary | 101 |
| Director, Development (Fund Raising) | 102 |
| Director, Placement Services | 103 |
| Director, Public Relations (Information) | 104 |
| Business Manager or Vice President | 105 |
| Manager, Bookstore | 106 |
| Budget Officer or Controller | 107 |
| Director, Food Services | 108 |
| Director, Housing | 109 |
| Director, Nonacademic Personnel | 110 |
| Director, Physical Plant | 111 |
| Purchasing Agent | 112 113 |
| Director, Intercollegiate Athletics | 113 |
| Nonprofessional Secretarial | 120 |
| Clerical | 121 |
| Maintenance | 122 |
| Technical | 123 |
| Other | 124 |
| Other Employees | |
| Professional | 130 |
| Nonprofessional | |
| Secretarial | 131 |
| Clerical | 132 |
| Maintenance | 133 |
| Technical | 134 |
| Othe r | 135 |
| | |

EMPLOYEE SUMMARY RECORD

| Punched Card | | | Code |
|-----------------|-----------------------|---------------------------|--------|
| Column | <u>Item</u> | Data | Number |
| 1-2 | Record type | Employee record | |
| | 7. | Full-time non- | |
| | | professional staff | 06 |
| | | Part-time non- | |
| | | professional staff | 07 |
| 3 | Level of offering | Junior college | 1 |
| | 3 | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5-6 | Institution code | | |
| 7-9 | Record date | Month and year | |
| 10-14 | Number of employees | • | |
| 15-17 | Primary function | See Exhibit V-19 | |
| 18 | Union affiliation | Yes | Y |
| | | \mathbf{N}_{O} | N |
| 19 | Compensation basis | Hourly | 1 |
| | - | Annual | 2 |
| 20-22 | Average monthly hours | | |
| 23-27 | Average rate | | |



EMPLOYEE ATTRITION RECORD

| Punched Card | | | Code |
|-----------------|------------------------------|----------------------------------|---------|
| Column | <u>Item</u> | Data | Number |
| 1-2 | Record type | Attrition record | 08 |
| 3 | Level of offering | Junior college | 1 |
| | | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | $\mathtt{Cont}\mathbf{rol}$ | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5 - 6 | Institution code | | |
| 7-9 | Record date | Month and year | |
| 10-18 | Record identification number | Unique number | |
| 19-21 | Primary function | See Exhibit V-19 | |
| 22 | Sex | Male | ${f M}$ |
| | | Female | ${f F}$ |
| 23-24 | Year of birth | Last two digits of year of birth | |
| 25 | Ethnic group | American Indian | 1 |
| | <u> </u> | Negro | 2 |
| | | Oriental | 3 |
| | | Spanish American | 4 |
| | | Other | 5 |
| 26 | Marital status | Single | S |
| | | Married | ${f M}$ |
| | | | |

| Punched | | | |
|-----------------|----------------------|----------------------------------------------------|-----------|
| \mathtt{Card} | | | Code |
| Column | <u>Item</u> | Data | Number |
| 27-28 | Service date | Last two digits of year joined instructional staff | |
| 29 | Highest degree | Doctoral | 1 |
| -, | | Master's | 2 |
| | | First professional | 3 |
| | | Bachelor's | 4 |
| | | Associate | 5 |
| | | Other | 6 |
| 30-34 | Institution granting | Federal educational | |
| | highest degree | institution code | |
| 35-39 | Institution granting | Federal educational | |
| • | first degree | institution code | |
| | C | | |
| • | FACULTY PERSONNEL ON | 1LY | |
| 40-41 | Year granted tenure | Last two digits of year | |
| | | granted tenure | |
| 42 - 46 | Field of study | Office of Education | |
| | currently teaching | item number | |
| 47-48 | Attrition code | Transfer | 01 |
| | | Retirement | 02 |
| | | Business | 03 |
| | | Further study | 64 |
| | | Leaves and sabbatical | 05 |
| | | Other | 06 |
| 49-51 | Termination date | Month and year | |
| | FOR TRANSFERS ONLY | | |
| 52 | Transfer | In state | 1 |
| | | Out of state | 2 |
| | | Out of country | 3 |
| 53-57 | Other college code | Federal educational institution code | |
| 58-60 | Foreign countries | mistitution code | |
| | | | |



FRINGE BENEFITS RECORD

| Punched Card Column | <u>Item</u> | <u>Data</u> | Code Number |
|---------------------------|-------------------|---------------------------|----------------|
| 1-2 | Record type | Fringe benefit record | 09 |
| 3 | Level of offering | Junior college | 1 |
| | J | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5 - 6 | Institution code | , | |
| 7-8 | Record year | | |
| 9-10 | Type of benefit | Retirement plan | |
| | | Vested | 01 |
| | | Not vested | 02 |
| | | Hospitalization, surgical | |
| | | and medical plans | 03 |
| | | Guaranteed disability | |
| | | income protection | 04 |
| | | Tuition plan | |
| | | Cash grants | 05 |
| | | Noncash grants | 0 6 |
| | | Sabbatical plan | 07 |
| | | Housing plan | |
| | | Cash payments | 80 |
| | | Subsidy estimate | 09 |
| | | Social security taxes | 10 |
| | | Unemployment compensa- | |
| | | tion taxes | 11 |
| | | Group life insurance | 12 |
| | | Tax sheltered annuity | 13 |

| Punched | | | |
|---------|----------------------|--------------------|--------|
| Card | | | Code |
| Column | <u>Item</u> | <u>Data</u> | Number |
| | | | |
| 11-16 | Academic Deans | Total expenditures | |
| 17-20 | | Number covered | |
| 21-26 | Professors | Total expenditures | |
| 27-30 | | Number covered | |
| 31 - 36 | Associate Professors | Total expenditures | |
| 37-40 | | Number covered | |
| 41-46 | Assistant Professors | Total expenditures | |
| 47-50 | | Number covered | |
| 51-56 | Instructors | Total expenditures | |
| 57-60 | | Number covered | |
| 61-66 | Junior staff | Total expenditures | |
| 67-70 | | Number covered | |
| 71-76 | Other | Total expenditures | |
| 77-80 | | Number covered | |

VI - FACILITIES INFORMATION SUBSYSTEM

VI - FACILITIES INFORMATION SUBSYSTEM

The facilities information subsystem described in this chapter includes analyses of buildings and rooms of all higher education institutions in the State. These analyses will enable the Commission to coordinate and develop State higher education facilities more effectively. These analyses provide trend and comparative information on facilities, and are generally described in terms of dollar amounts or square feet per FTE student, with emphasis on instructional and office space.

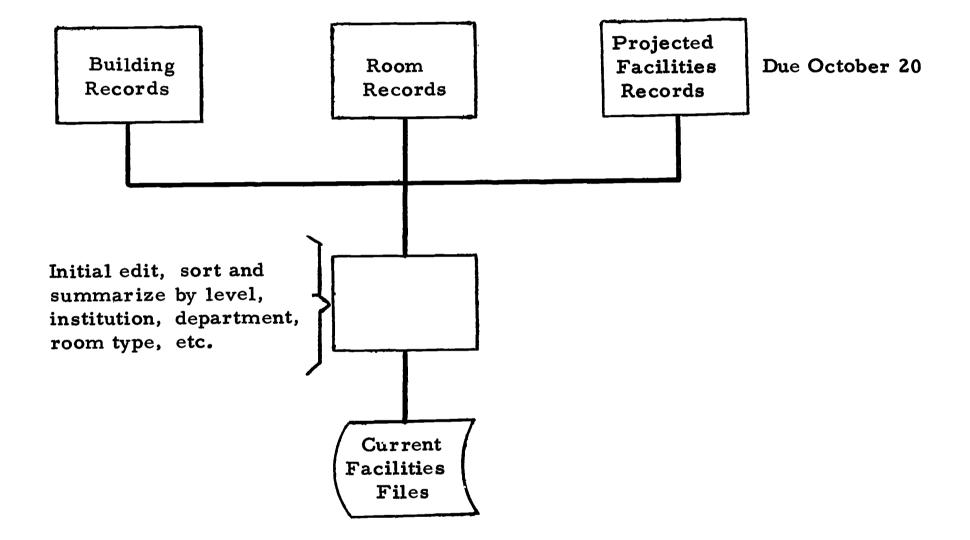
This subsystem also provides analyses of instructional space utilization. These reports include information on average scheduled weekly hours for classrooms and laboratories, and the utilization of student stations within these rooms. Input information will be provided by each institution.

The following description of this subsystem includes the flow charts, formats of information and planning reports, and layouts of input records.

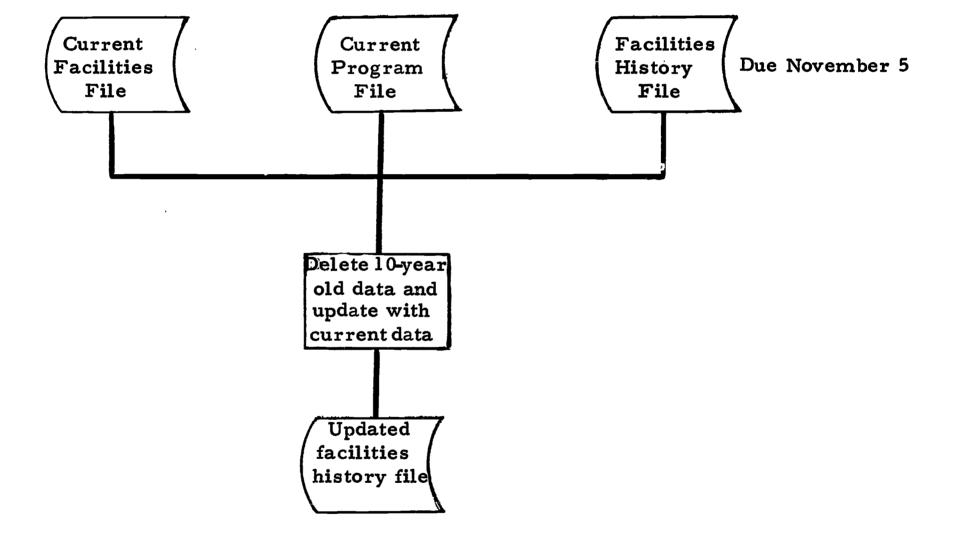
A - FLOW CHARTS

| Exhibit Number | |
|-------------------|-----------------------------------------------------------|
| VI-1 | Creating Initial Files Or Processing Fall Facilities Data |
| VI-2 | Updating Facilities History File |
| VI-3 | Processing Planning Reports |
| VI_4 | Processing Information Reports |

CREATING INITIAL FILES OR PROCESSING FALL FACILITIES DATA

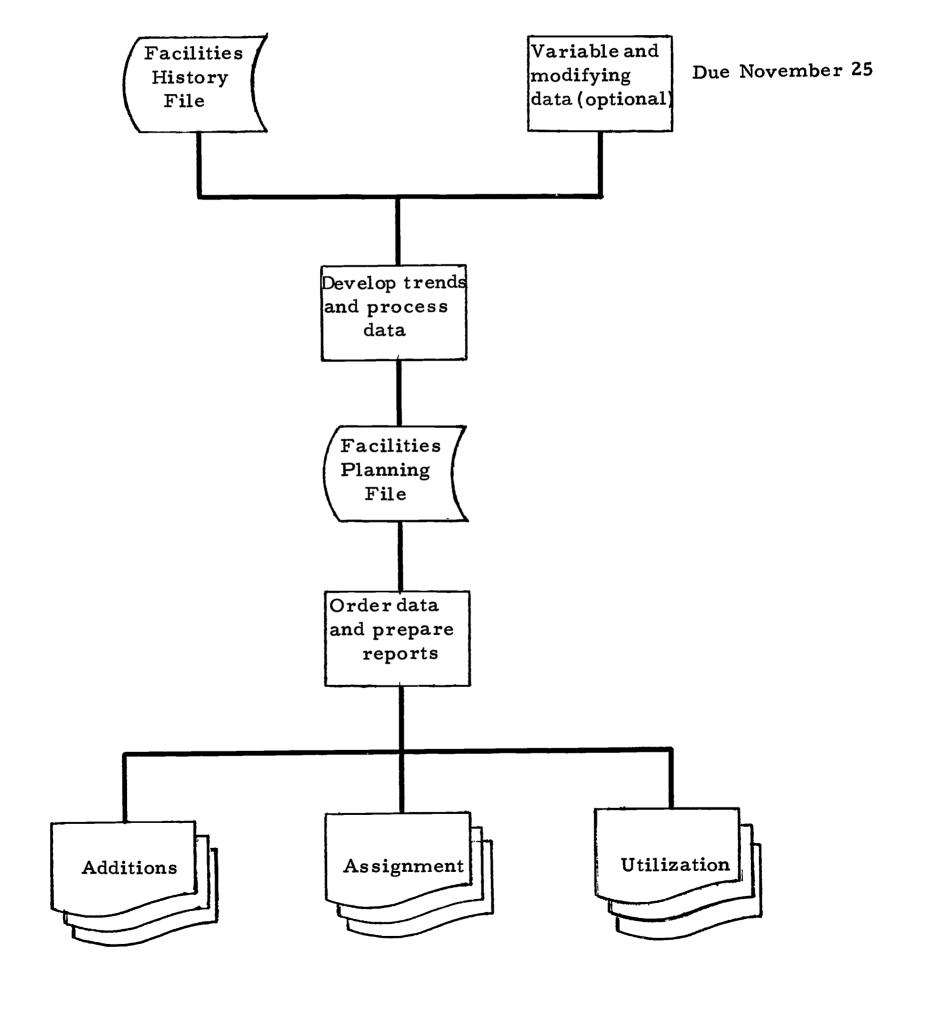


MISSOURI HIGHER EDUCATION UPDATING FACILITIES HISTORY FILE

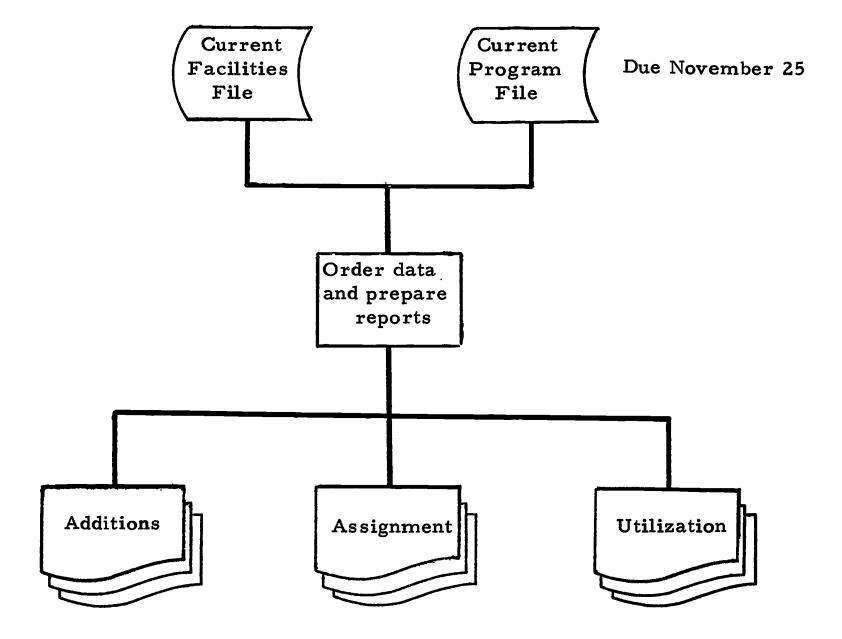


ERIC

MISSOURI HIGHER EDUCATION PROCESSING PLANNING REPORTS



MISSOURI HIGHER EDUCATION PROCESSING INFORMATION REPORTS



B - PLANNING REPORTS FOR FUTURE MISSOURI HIGHER EDUCATION

| Exhibit | |
|---------|--------------------------------------------------------|
| Number | |
| | Additions |
| VI-5 | Additions To Physical Plant At The Public University |
| VI-6 | Building Costs |
| | Assignment |
| VI-7 | Space By Function At The Public University |
| VI-8 | Space By Room Type At The Public University |
| | Utilization |
| VI-9 | Instruction Space Utilization At The Public University |



ADDITIONS TO PHYSICAL PLANT AT THE PUBLIC UNIVERSITY

(Thousands Of Dollars)

| ${f Projected}$ | 1970 1971 1973 1978 |
|------------------------|---------------------|
| <u></u> | 1969 |
| Current | 1968 |
| Past Actual | 1958 1963 |
| Nature Of Addition And | Source Of Funds |

ed Expenditures Estimat

Land

Improvements other than buildings

Buildings

Educational and general

Instructional and library Academic

Other

Other educational and general

Housing and related

Residence halls Family units

Service

Other auxiliary enterprises

Subtotal

Equipment

Total

Source Of Funds

Federal government

Housing and related

All other

State and local government

Housing and related

All other

Other Available Versions

Public junior colleges State colleges

Private insitutions by

Individual institutions upon of offering

request

| Nature Of Addition And | Past / | Actual. | Current | | \mathbf{Pr} | rojected | | |
|------------------------|--------|---------|---------|------|---------------|----------|------|------|
| Source Of Funds | 1958 | 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |
| | | | | | | | | I |

i. 1.

Private Housing and related All other

Total

(Average Amount Per Square Foot)

| E | Past A | Actual | Current | | \mathbf{Pr} | rojected | | |
|------------------|--------|--------|---------|------|---------------|----------|------|------|
| Type Of Building | 1958 | 1963 | 1968 | 1969 | 1970 | 1971 | 1973 | 1978 |

Public

Junior colleges Educational and general Housing and related Other auxiliary enterprises State colleges
Educational and general
Housing and related
Other auxiliary enterprises

University
Educational and general
Housing and related
Other auxiliary enterprises

Private
Junior colleges
Educational and general
Housing and related
Other auxiliary enterprises

 Individual public institutions by level of offering
 Individual private institutions by level of offering upon request

Other Available Versions

Four-Year colleges
Educational and general
Housing and related
Other auxiliary enterprises

ERIC

| Projected | 1969 1970 1971 1973 1979 |
|---------------------|--------------------------|
| Past Actual Current | 1958 1963 1968 |
| Type Of Building | guining to od! |

Universities Educational and general Housing and general Other auxiliary enterprises

Total - All Institutions

Educational and general Housing and related Other auxiliary enterprises

ERIC Travelded by ERIC

SPACE BY FUNCTION AT THE PUBLIC UNIVERSITY (Square Feet Per FTE Student)

| Projected | 1969 1970 1971 1973 1979 | 0161 6171 1771 017- 377- |
|------------------|--------------------------|--------------------------|
| Actual Current | 1963 1968 | |
| Past A | 1958 | |
| Primary Function | TOTALLY (TRITE) | |

Assignable

Instruction and research

Organized activity units

Organized research units

Library

administration and institutional services General

Auxiliary services

Noninstitutional services

Unassigned Subtota1 Nonassignable

Total Space

Assignable Space/Total Space Ratio

f FTE Students Number O

Capacity/Enrollment Ratio (Sum of instruction and research and library space/student clock hours)

Other Available Versions

- State colleges
- Private institutions by level of offering Public junior colleges
 - Individual institutions
- Square feet per employee for other than instruction or instruction related functions upon request

, }

MISSOURI HIGHER EDUCATION

SPACE BY ROOM TYPE AT THE PUBLIC UNIVERSITY

(Square Feet Per FTE Student)

Classroom

Laboratory

Office

Study

Special Use

General Use

Support

Medical Care

Residence

Total

Other Available Versions

State colleges
 Public junior colleges

3. Private institutions by level

of offering 4. Individual institutions

INSTRUCTION SPACE UTILIZATION AT THE PUBLIC UNIVERSITY

| Projected | 1969 1970 1971 1973 1978 | |
|---------------------|--------------------------|--|
| Current | 1968 | |
| Actual | 1958 1963 | |
| Utilization Measure | • | |

Classroom Utilization

Classrooms

Number

Average scheduled weekly hours

Student stations

Number

Station hours available weekly(a)

Station hours actually used weekly

Per cent utilization

Laboratory Utilization

Laboratories

Number

Average scheduled weekly hours

stations Student

Number

Station hours available weekly(a)

Per cent utilization

(a)Total number of student stations multipled by the average scheduled weekly hours.

Other Available Versions

State colleges

Public junior colleges

Private institutions by level of offering

Instruction and research categories

upon request

C - INFORMATION REPORTS ON CURRENT FACILITIES

| Exhibit | |
|---------|----------------------------------------------------------|
| Number | |
| - | Additions |
| VI-10 | Additions To Physical Plant At The Public University |
| | Assignment |
| VI-11 | Space By Function |
| VI-12 | Space By Room Type |
| VI-13 | Space By Room Type And Function At The Public University |
| VI-14 | Office Space |
| | Utilization |
| VI-15 | Instruction Space Utilization |
| VI-16 | Departmental Space Utilization At The Public University |

ADDITIONS TO PHYSICAL PLANT AT THE PUBLIC UNIVERSITY (Thousands Of Dollars)

| on And University Of Missouri | ds Columbia Rolla Kansas City St. Louis Total |
|-------------------------------|-----------------------------------------------|
| Nature Of Addition And | Source Of Funds |

Estimated Expenditures

Land

Improvements other than buildings

Buildings

Educational and general

Academic

Instructional and library

Other

Other educational and general

Housing and related

Residence halls

Family units

Service Other auxiliary enterprises

Subtotal

Equipment

Total

Source Of Funds Federal government All other State and local government

and related

Housing

Housing and related All other

Other Available Versions

- State colleges
 Public junior colleges
- 3. Private institutions by level
 - of offering
 4. Individual institutions upon

request



| Vature Of Addition And | | Univ | University Of Missouri | | |
|------------------------|----------|-------|------------------------|-----------|-------|
| Source Of Funds | Columbia | Rolla | Kansas City | St. Louis | Total |

:1

Private Housing and related All other

Total

1

;

: !

SPACE BY FUNCTION (Square Feet Per FTE Student)

| Louis Washington | University University |
|-----------------------|-----------------------|
| St. L | Unive |
| | Total |
| ouri | St. Louis |
| University Of Missour | a Kansas City |
| Un | Rolla |
| | Columbia |
| | Primary Function |

Assignable

Instruction and research
Organized activity units
Organized research units
Library

General administration and institutional services
Auxiliary services
Noninstitutional services
Unassigned

Subtotal

•

Nonassignable

Total Space

Assignable Space/Total Space Ratio Number of FTE Students

Capacity/Enrollment Ratio
(Sum of instruction and research and library space/ student clock hours)

Other Available Versions

1. State colleges

2. Public junior colleges
3. Private institutions by level

of offering

| souri St. Louis Total University | | | 11.00 | 3 | | | | |
|-------------------------------------------------------------------------------|----|----------|-------|------------------|-----|-------|------------|------------|
| ry Function Columbia Rolla Kansas City St. Louis Total University | | | | versity of Misso | uri | | St. Louis | Washington |
| | ry | Columbia | Rolla | $C_{\mathbf{i}}$ | _ | Total | University | University |

Assignable Space/ Total

Number of FTE Students

Capacity/Enrollment Ratio (Sum of Instruction and Research and Library space/student clock hours).

- 1

<u>[</u>]

SPACE BY ROOM TYPE (Square Feet Per FTE Student)

| | | Misson | TINOSSTINI | Average |
|---------|--------|------------------|-----------------------------|---------|
| | | | Δ | ひとりにながら |
| Private | | | Thirdreities Aronous Aminos | |
| Prix | | Junior Four-Year | Colleges | 109001 |
| | | Junior | Colleges | 200 |
| | | | Average | 0 |
| Public | | | University | |
| | 7, 7,5 | State | Colleges | |
| | Tinion | JOTTE | Colleges | |
| | | 1 | Room Type | |

Classroom

Laboratory

Office

Study

Special Use

General Use

Support

Medical Care

Residence

Total

Other Available Versions
1. Individual institutions by level
of offering and control

2. Universities

SPACE BY ROOM TYPE AND FUNCTION AT THE PUBLIC UNIVERSITY (Square Feet Per FTE Student)

| Type Of Room | al Medical Resi- | Citice Johns | | | | | | | | | | | | | Other Available Versions | State colleges | | | | 4. Individual institutions upon request | | age | · 1 | O i | f 3 | |
|------------------------|------------------|--------------------------|-------------------------|---------------|-----------------|----------|---------------------|-----------|---------|----------|---------------|--------------|----------------|---------------------|--------------------------|-----------------------|--------------------------|----------|---------------------|-----------------------------------------|-------------|----------------------|------------------------|------------------|-----------------------|---|
| Office of Education | Class- | | 1100 | 1200 | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 | 1238 | 1239 | 1299 | | | | 1300 | 1400 | 1500 | 1600 | 1700 | | 1800 | TT. | |
| | Primary Function | Instruction And Research | General or unclassified | Life sciences | Health sciences | Medicine | Veterinary medicine | Dentistry | Nursing | Pharmacy | Public health | Other health | General health | Other life sciences | Subtotal | Mathematic, computer, | physical and engineering | sciences | Behavioral sciences | Humanities | Professions | Technical-Vocational | Physical education and | military science | Total Instruction and | 1 |

| Class- Lab- Special General Medical Resi- Room oratory Office Study Use Use Support Care dence | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|---|------------|-------|----------------|------|-----------------|-------|-------|
| Fr-cilities Class- Lab- Special General Resi- Code Room oratory Office Study Use Use Support Care Gence Total Care Gence Gence Total Care Gence Total Care Gence Gence | , , | Office Of Education | | | Type | Of Room | | | | |
| 2000 3100 3200 3230 3231 3232 3233 3234 3235 3236 3236 3236 3239 3239 3239 3239 3230 3230 3230 3230 | Primary Function | Facilities Code | 1 | Office | Study | Special Use | | Medical Care | Resi- | Total |
| 3000 3200 3230 3231 3233 3234 3235 3236 3236 3238 3239 3239 3239 3230 3230 3230 3230 3230 | Organized Activity Units | 2000 | | | | | | | | |
| 3200 3230 3231 3232 3233 3234 3235 3236 3236 3239 3239 3239 3239 3239 3239 | Organized Research Units | | | | | | | | | |
| 3230 3231 3232 3233 3234 3234 3236 3238 3239 3239 3239 3239 3290 3400 3400 3500 3700 | General or unclassified | | | | | | | | | |
| 3230 3231 3232 3234 3234 3236 3238 3239 3239 3239 3239 3230 3400 3400 3400 3400 3400 3500 3600 3600 3700 | Life sciences | | | | | | | | | |
| 3231 3232 3233 3234 3235 3236 3238 3239 3239 3230 3230 3230 3230 3230 3230 | Health sciences | | | | | | | | | |
| 3232 3234 3234 3234 3236 3238 3239 3299 3290 3400 3400 3500 3600 3700 | Medicine | | | | | | | | | |
| 3233 3234 3235 3236 3239 3239 3299 3299 3290 3400 3400 3400 3400 3500 3500 3600 3700 | Veterinary medicine | 3232 | | | | | | | | |
| 3234 3235 3238 3239 3239 3239 3239 3239 3239 3239 | Dentistry | 3233 | | | | | | | | |
| 3235 3236 3239 3299 3200 3400 3400 3500 3700 | Nursing | 3234 | | | | | | | | |
| 3236 3239 3239 3299 3200 3400 3500 3600 3700 3800 | Pharmacy | 3235 | | | | | | | | |
| 3238 3239 3299 3300 3400 3500 3600 3700 | Public health | 3236 | | | | | | | | |
| 3239 3299 3300 3400 3500 3600 3700 | Other health | 3238 | | | | | | | | |
| 3300 3400 3500 3500 3600 3700 | General health | 3239 | | | | | | | | |
| 3300 3400 3500 3600 3700 3800 | Other life sciences | 3299 | | | | | | | | |
| 3400 3400 3500 3600 3700 3800 | Subtotal | | | | | | | | | |
| 3300 3400 3500 3600 3700 | Mathematic, computer, | | | | | | | | | |
| 3300 3400 3500 3600 3700 3800 | physical and engineering | | | | | | | | | |
| 3400 3500 3600 3700 3800 | sciences | | | | | | | | | |
| Page 0028 3800 3800 | Behavioral sciences | | | | | | | | | |
| Page 0098 | Humanities | | | | | | | | | |
| 9008E | Professions | | | | | | | | | |
| Page 0088 | Technical-vocational | | | | | | | | | |
| 3800 | Physical education and | | | | | | | | | |
| | military science | | | | | | | | | |

| | Office Of Education | | | | Type (| Type Of Room | | | | | |
|------------------------------------------------------|------------------------|------|---------|--------|--------|--------------|---------|---------|---------|-------|-------|
| Primary Function | Facilities | 1 | Lab- | - :350 | 7 | Special | General | | Medical | Resi- | |
| Public Service Units | 4000 | KOOM | oratory | OIIICe | Study | Ose | Ose | Support | Care | dence | Total |
| Library | 2000 | | | | | | | | | | |
| General Administration and Institutional Services | 0009 | | | | | | | | | | |
| Auxiliary Services | 2000 | | | | | | | | | | |
| Noninstitutional Agencies | 8000 | | | | | | | | | | |
| Unassigned | 0006 | | | | | | | | | | |
| Total Assignable Space | | | | | | | | | | | |
| Nonassignable Space | 000 | | | | | | | | | | |
| Grand Total Space | | | | | | | | | | | |

ERIC Full Text Provided by ERIC

(Square Feet Per Full-Time Professional Employee)

| | | ľ | University Of Missouri | | | St. Louis | Washington |
|------------------|----------|-------|------------------------|-----------|-------|------------|------------|
| Primary Function | Columbia | Rolla | Kansas City | St. Louis | Total | University | University |
| | | | | | | | |

Instruction And Research
Organized Activity Units
Organized Research Units
Library
General Administration And
Institutional Services
Auxiliary Services
Noninstitutional Services

Total Number Of Full-Time Professional Employees

Other Available Versions

- . State colleges
- 2. Public junior colleges
- 3. Private institutions by level of offering

INSTRUCTION SPACE UTILIZATION

| 174:1: 4: | | Unive | University Of Missouri | | | St. Louis | Washington |
|-------------------------|----------|-------|------------------------|-----------|-------|------------|------------|
| Ullization Measure | Columbia | Rolla | Kansas City | St. Louis | Total | University | University |
| Classroom Utilization | | | | | | | |
| Classrooms | | | | | | | |
| Number | | | | | | | |
| Average scheduled | | | | | | | |
| weekly hours | | | | | | | |
| Student stations | | | | | | | |
| Number | | | | | | | |
| Station hours available | | | | | | | |
| weekly(a) | | | | | | | |
| Station hours actually | | | | | | | |
| used weekly | | | | | | | |
| Per cent utilization | | | | | | | |

Laboratory Utilization
Laboratories
Number
Average scheduled
weekly hour
Student stations
Number
Station hours available
weekly(a)
Station hours actually
used weekly
Fer cent utilization

Private institutions by level

of offering

Public junior colleges

Other Available Versions
1. State colleges

(a)Total number of student stations multiplied by the average scheduled weekly hours.

P^ |

DEPARTMENTAL SPACE UTILIZATION AT THE PUBLIC UNIVERSITY

| | | Cla | Classrooms | | Student Stations | ations | |
|---------------------------|------------|--------|------------|--------|--------------------------|-------------------------------|-------------|
| | Office Of | | Average | | | | |
| Department Of Instruction | Education | | Scheduled | | Station Hours | Station Hours | |
| And Research | Facilities | | Weekly | | Available | Actually | Per Cent |
| | Code | Number | Hours | Number | Weekly(a) | Used | Utilization |
| General Or Unclassified | 1100 | | | | | | |
| Life Sciences | 1200 | | | | | | |
| Health sciences | 1230 | | | | | | |
| Medicine | 1231 | | | | | | |
| Veterinary medicine | 1232 | | | | | | |
| Dentistry | 1233 | | | | | | |
| Nursing | 1234 | | | | | | |
| Pharmacy | 1235 | | | | | | |
| Public health | 1236 | | | | | | |
| Other health | 1238 | | | | | | |
| General health | 1239 | | | | | | |
| Other life sciences | 1299 | | | | | | |
| Subtotal | | | | | | | |
| Mathematic, Computer, | | | | | Other Available Versions | Versions | |
| Physical And Engineering | | | | | 1. Laboratory | Laboratory utilization | |
| Sciences | 1300 | | | | 2. State colleges | ges | |
| Behavioral Science | 1400 | | | | | Public junior colleges | |
| Humanities | 1500 | | | | | Private institutions by level | -1 |
| Professions | 1600 | | | | of offering | | |
| Technical-Vocational | 1700 | | | | | | E. J |
| Physical Education And | | | | | | | хн. |
| Military Science | 1800 | | | | | | IBI |
| Total | | | | | | | Τ \ |

(a) Total number of student stations multiplied by average scheduled weekly hours.

140

D - RECORD LAYOUTS

| Exhibit Number | |
|-------------------|-----------------------------------------------------------------------------|
| VI-17 | Projected Facilities Record: Actual Expenditures, 1962-63 Through 1966-67 |
| VI-18 | Projected Facilities Record: Source Of Funds, 1962-63 Through 1966-67 |
| VI-19 | Projected Facilities Record: Estimated Expenditures 1967-68 Through 1971-72 |
| VI-20 | Projected Facilities Record: Source Of Funds, 1967-68 Through 1971-72 |
| VI-21 | Projected Facilities Record: Estimated Expenditures 1972-73 Through 1976-77 |
| VI-22 | Projected Facilities Record: Source Of Funds, 1972-73 Through 1976-77 |
| VI-23 | Building Record |
| VI-24 | Room Record |
| VI-25 | Room Primary Function Code List |

PROJECTED FACILITIES RECORD: ACTUAL EXPENDITURES

1962-63 Through 1966-67

| Punched Card Column | <u>Item</u> | <u>Data</u> | Code <u>Number</u> |
|---------------------------|------------------------------------------------|-----------------------------|-----------------------|
| 1 -2 | Record type | Projected facilities record | 30 |
| 3 | Level of offering | Junior college | 1 |
| | | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5 - 6 | Institution code | | |
| 7-9 | Record date | Month and year | |
| 10-15 | Land | Thousands of dollars | |
| 16-21 | Improvements other than buildings | Thousands of dollars | |
| 22-27 | Buildings - instructional and library | Thousands of dollars | |
| 28-33 | Buildings - other academic | Thousands of dollars | |
| 34-39 | Buildings - other educa- tional and general | Thousands of dollars | |
| 40-45 | Buildings - residence halls | Thousands of dollars | |
| 46-51 | Buildings - family units | Thousands of dollars | |
| 52-57 | Buildings - service facilities | Thousands of dollars | |
| 58-63 | Equipment | Thousands of dollars | |

Note: Projected facilities data will be taken from Higher Education General Information Survey (HEGIS) Form OE-2300-6.



PROJECTED FACILITIES RECORD: SOURCE OF FUNDS 1962-63 Through 1966-67

| Punched Card Column | <u>Item</u> | <u>Data</u> | Code Number |
|---------------------------|--------------------------------------------------|-----------------------------|----------------|
| 1 -2 | Record type | Projected facilities record | 31 |
| 3 -4 | Institution code | | |
| 5 - 7 | Record date | Month and year | |
| 8-13 | Federal government - housing and related | Thousands of dollars | |
| 14-19 | Federal government - all other | Thousands of dollars | |
| 20 - 25 | State and local government - housing and related | Thousands of dollars | |
| 26-31 | State and local government - all other | Thousands of dollars | |
| 32 - 37 | Private - housing and related | Thousands of dollars | |
| 38-43 | Private - all other | Thousands of dollars | |

ERIC Full Text Provided by ERIC

PROJECTED FACILITIES RECORD: ESTIMATED EXPENDITURES 1967-68 Through 1971-72

| Punched Card | | | Code |
|-----------------|-------------------------------------------|-----------------------------|--------|
| Column | <u>Item</u> | Data | Number |
| 1 -2. | Record type | Projected facilities record | 32 |
| 3 | Level of offering | Junior college | 1 |
| | | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | • | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5 - 6 | Institution code | | |
| 7 -9 | Record date | Month and year | |
| 10-15 | Land | Thousands of dollars | |
| 16-21 | Improvements other than buildings | Thousands of dollars | |
| 22 -27 | Buildings - instructional and library | Thousands of dollars | |
| 28-33 | Buildings - other academic | Thousands of dollars | |
| 34 - 39 | Buildings - other educational and general | Thousands of dollars | |
| 40-45 | Buildings - residence halls | Thousands of dollars | |
| 46-51 | Buildings - family units | Thousands of dollars | |
| 52 - 57 | Buildings - service facilities | Thousands of dollars | |
| 58-63 | Equipment | Thousands of dollars | |

Note: Projected facilities data will be taken from Higher Education General Information Survey (HEGIS) Form OE-2300-6.



PROJECTED FACILITIES RECORD: SOURCE OF FUNDS 1967-68 Through 1971-72

| Punched | | | |
|-----------------|--------------------------------------------------|-----------------------------|--------|
| \mathtt{Card} | | | Code |
| Column | <u>Item</u> | <u>Data</u> | Number |
| 1 -2 | Record type | Projected facilities record | 33 |
| 3 -4 | Institution code | r rojected ractifics record | 33 |
| 5 - 7 | Record date | Month and year | |
| 8 -1 3 | Federal government - housing and related | Thousands of dollars | |
| 14-19 | Federal government - all other | Thousands of dollars | |
| 20-25 | State and local government - housing and related | Thousands of dollars | |
| 26-31 | State and local government - all other | Thousands of dollars | |
| 32 - 37 | Private - housing and related | Thousands of dollars | |
| 38-43 | Private - all other | Thousands of dollars | |
| | | | |



11

PROJECTED FACILITIES RECORD: ESTIMATED EXPENDITURES 1972-73 Through 1976-77

| Punched Card Column | <u>Item</u> | <u>Data</u> | Code Number |
|---------------------------|-------------------------------------------|-----------------------------|----------------|
| 1 -2 | Record type | Projected facilities record | 34 |
| 3 | Level of offering | Junior college | 1 |
| | 8 | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5 - 6 | Institution code | | |
| 7 - 9 | Record date | Month and year | |
| 10-15 | Land | Thousands of dollars | |
| 16-21 | Improvements other than buildings | Thousands of dollars | |
| 22 -27 | Buildings - instructional and library | Thousands of dollars | |
| 28-33 | Buildings - other academic | Thousands of dollars | |
| 34 - 39 | Buildings - other educational and general | Thousands of dollars | |
| 40-45 | Buildings - residence halls | Thousands of dollars | |
| 46 - 51 | Buildings - family units | Thousands of dollars | |
| 52 - 57 | Buildings - service facilities | Thousands of dollars | |
| 58-63 | Equipment | Thousands of dollars | |

Note: Projected facilities data will be taken from Higher Education General Information Survey (HEGIS) Form OE-2300-6.



PROJECTED FACILITIES RECORD: SOURCE OF FUNDS 1972-73 Through 1976-77

| Punched | | | C - 1 - |
|---------------|--------------------------------------------------|-----------------------------|---------------|
| Card | _ | _ | Code |
| <u>Column</u> | <u>Item</u> | <u>Data</u> | <u>Number</u> |
| _ | | | 0.5 |
| 1 -2 | Record type | Projected facilities record | 35 |
| 3 -4 | Institution code | | |
| 5 - 7 | Record date | Month and year | |
| 8 - 1 3 | Federal government - housing and related | Thousands of dollars | |
| 14-19 | Federal government - all other | Thousands of dollars | |
| 20-25 | State and local government - housing and related | Thousands of dollars | |
| 26 -31 | State and local government - all other | Thousands of dollars | |
| 32 - 37 | Private - housing and related | Thousands of dollars | |
| 38-43 | Private - all other | Thousands of dollars | |
| | | | |

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BUILDING RECORD

| Code <u>Number</u> 36 |
|-----------------------------|
| 36 |
| |
| 1 |
| 2 |
| 3 |
| 4 |
| 2 |
| |
| 6 |
| 8 |
| |
| |
| |
| 1 |
| 2 |
| 3 |
| |
| |
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ROOM RECORD

| Punched | | | |
|------------|-------------------|---------------------------|--------|
| ${f Card}$ | | | Code |
| Column | <u>Item</u> | <u>Lata</u> | Number |
| 1-2 | Record type | Room record | 37 |
| 3 | Level of offering | Junior college | 1 |
| | _ | Four-year college | 2 |
| | | University | 3 |
| | | Special school (seminary) | 4 |
| 4 | Control | Public | 2 |
| | | Private | |
| | | Religious affiliation | 6 |
| | | Other | 8 |
| 5-6 | Institution code | | |
| 7-9 | Record date | Month and year | |
| 10-12 | Building code | Institution building code | |
| 13-17 | Room number | _ | |
| 18-21 | Primary function | See Exhibit VI-25 | |
| 22-24 | Room type | | |
| 25-29 | Gross area | Square feet | |
| 30-33 | Student stations | Total number | |

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ROOM PRIMARY FUNCTION CODE LIST

| | Code |
|--------------------------------------------------|-----------|
| Primary Function | Number(a) |
| | |
| Department Of Instruction And Research | 1000 |
| General or unclassified | 1100 |
| Life Sciences | 1200 |
| Health Sciences | 1230 |
| Medicine | 1231 |
| Veterinary Medicine | 1232 |
| Dentistry | 1233 |
| Nursing | 1234 |
| Pharmacy | 1235 |
| Public Health | 1236 |
| Other Health | 1238 |
| General Health | 1239 |
| | |
| All Other Life Sciences | 1299 |
| Mathematical, Computer, Physical and Engineering | 1300 |
| Sciences | |
| Behavioral Sciences | 1400 |
| Humanities | 1500 |
| Professions | 1600 |
| Technical - Vocational | 1700 |
| Physical Education and Military Science | 1800 |
| Organized Activity Units | 2000 |
| Organized Research Units | 3000 |
| General or unclassified | 3100 |
| Life Sciences | 3200 |
| Health Sciences | 3230 |
| Medicine | 3231 |
| Veterinary Medicine | 3232 |
| Dentistry | 3233 |
| Nursing | 3234 |
| Pharmacy | 3235 |
| Public Health | 3236 |
| Other Health | 3238 |
| General Health | 3239 |
| All Other Life Sciences | 3299 |



| Primary Function | Code Number (a) |
|---------------------------------------------------|--------------------|
| Mathematical, Computer, Physical and Engineering | |
| Sciences | 3300 |
| Behavioral Sciences | 3400 |
| Humanities | 3500 |
| Professions | 3600 |
| Technical-Vocational | 3700 |
| Physical Education and Military Science | 3800 |
| Public Service Units | 4000 |
| Library | 5000 |
| Central Administration And Institutional Services | 6000 |
| Auxiliary Services | 7000 |
| Noninstitutional Agencies | 8000 |
| Unassigned | 9000 |
| Nonassignable | 000 |

⁽a)Office of Education item number.

VII - MANAGEMENT INFORMATION SYSTEM DEFINITIONS

VII - MANAGEMENT INFORMATION SYSTEM DEFINITIONS

A draft of the definitions has been furnished to the Commission as a separate document. This document will be reviewed and finalized by a committee of Missouri college representatives.

VIII - PLAN OF ACTION

VIII - PLAN OF ACTION

This chapter sets forth the steps necessary to install the proposed higher education information system, together with an estimate of the equipment, manpower and other resources required.

PRELIMINARY STEPS

Obtain Agreement In Principle

If the institutions of higher education and the State are to obtain the benefits of an improved information system, the Commission, the Executive Secretary and the institutions must agree that this is a practical system that should be implemented.

Assign Full Responsibility For Accomplishing This Program To The Executive Secretary

It is necessary to have a single person responsible for accomplishing this installation project.

Assign One Full-Time Commission Employee Knowledgeable In Data Processing To Participate In The Detailed Design And Installation Effort

The Director of Institution Research should be largely responsible for this work.

Establish Specific Subprojects And Accomplishment Milestones

Prepare detailed write-ups complete with time schedules and cost budgets, where applicable, for each of the recommended installation steps.

Assign specific responsibility for project accomplishment.

Establish firm accomplishment milestones, and provide adequate resources for reaching them.

SUGGESTED

IMPLEMENTATION PLAN

Exhibit VIII-1, following, lists the steps necessary to install the system. The exhibit also shows recommended responsibility assignments, an estimate of the number of man-weeks of outside technical assistance required, and suggested priorities. This plan should be updated after the specific steps are authorized and responsibilities are assigned to specific individuals.

MINIMUM DATA PROCESSING EQUIPMENT REQUIREMENTS

While a detailed equipment study has not been made (this is suggested as step 3 in the detailed installation plan), the data processing equipment configuration required for the recommended information system must have the following characteristics:

- Core storage or its equivalent in the range of 16,000 to 32,000 bytes
- Magnetic tape or disk input-output devices
- High-speed card input or off-line card-to-tape/disk capability
- High-speed printer output or off-line tape/disk-to-print capability
- Capability to accept higher-level programming languages such as COBOL.

ESTIMATED

PROGRAMMING REQUIREMENTS

Estimating the man-weeks required for coding, testing and documenting the necessary programs was approached as follows.

- Programs were classified according to type and degree of difficulty.
- The man-weeks required for developing individual programs were estimated, relative to the classifications identified above, as shown in Exhibit VIII-2.
- The system flow charts were reviewed to determine the total number of programs required, by classification.
- Man-weeks of programming effort were calculated and summarized from these data (see Exhibit VIII-3).



SCHEDULE FOR IMPLEMENTATION

| | Suggested Priority | Immediate | Immediate | Immediate | Immediate | First Second Third | Fourth Fifth | • | • | First Second | Inira Fourth Fifth | • | | • | |
|--------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------|----------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|-------|
| an-Weeks Technical Required | Programming | • | None | None | None | None None None | None None | None | None | 84 25 7 | 62 62 46 | None | None | Not deter - mined as | 284 |
| Estimated Man-Weeks Of Outside Technical Assistance Required | Project Coordination And EDP Systems | 1 | None | 2 | None | 13 4 10 | 6 | None | 2 | None None | None None | ī. | 4 | Not deter- mined as | 95 |
| | Recommended Responsibility Assignment | Executive Secretary | Executive Secretary | Executive Secretary | Executive Secretary | Director of Institutional Research/Installation Team | | Executive Secretary | Director of Institutional Research | Director of Institutional Research/Installation Team | | Director of Institutional Research/Installation Team | Executive Secretary/ Installation Team | Director of Institutional Research/Installation Team | |
| | Step | Obtain agreement on priority of subsystem conversions after consulting with public and private institutions and State officials | Establish framework for coordinating and controlling the detailed design of the information system | Determine detailed equipment require- ments and arrange to obtain its use | Make arrangements to secure necessary systems and programming manpower | Design subsystems in detail: Student Program Financial | Personnel Facilities | Select colleges for pilot installation | Review detailed design with colleges selected for pilot installation | Code, test and document required programs: Student Program | Financial Personnel Facilities | Convert individual subsystems for pilot installation | Evaluate pilot installation and modify detailed design as required | Convert all institutions | |
| | Number | , | 8 | æ | 41 | ហ | | 9 | 7 | œ | | σ | 10 | 11 | Total |

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PROGRAMMING MAN-WEEKS REQUIRED, BY TYPE OF PROGRAM AND DEGREE OF DIFFICULTY

| | | ı-Weeks Requii Of Programmi: | ₹ |
|--------------------|------|---------------------------------|-----------|
| Type Of Program | Easy | Medium | Difficult |
| Standard Utilities | 1 | | |
| File Maintenance | 3 | 5 | 8 |
| Planning Report | | 5 | 7 |
| Information Report | 3 | 5 | 7 |



ESTIMATED PROGRAMMING REQUIREMENTS

| | Num | ber Of Progra | ams, By | Total |
|--------------------|----------------|----------------|-----------|-----------|
| | De | egree Of Diffi | culty | Man-Weeks |
| Type Of Program | Easy | Medium | Difficult | Required |
| Student | | | | |
| Standard utilities | 4 | - | - | 4 |
| File maintenance | 6 | - | - | 18 |
| Planning report | - | 6 | 1 | 37 |
| Information report | _5_ | _2 | | <u>25</u> |
| Subtotal | $\frac{5}{15}$ | 8 | 1 | 84 |
| Program | | | | |
| Standard utilities | 1 | - | - | 1 |
| File maintenance | 1 | - | - | 3 |
| Planning report | - | 1 | 1 ' | 12 |
| Information report | <u>3</u> 5 | | <u>-</u> | 9 |
| Subtotal | 5 | 1 | _1 | 25 |
| Financial | | | | |
| Standard utilities | 2 | - | - | 2 |
| File maintenance | 1 | 2 | - | 13 |
| Planning report | - | 5 | 1 | 32 |
| Information report | | 4 | - | 20 |
| Subtotal | 3 | 11 | _1 | 67 |
| Personnel | | | | |
| Standard utilities | 2 | - | - | 2 |
| File maintenance | 1 | 1 | - | 8 |
| Planning report | - | 5 | 1 | 32 |
| Information report | | _4 | - | 20 |
| Subtotal | 3 | 10 | _1 | 62 |
| Facilities | | | | |
| Standard utilities | 1 | - | - | 1 |
| File maintenance | 1 | 1 | - | 8 |
| Planning report | - | 3 | 1 | 22 |
| Information report | _ | _3 | _ | <u>15</u> |
| Subtotal | 2 | 7 | 1 | <u>46</u> |
| Total | 28 | 37 | 5 | 284 |

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IMPLEMENTATION TIMETABLE

An implementation timetable has been developed on the basis of the systems and programming requirements identified previously. The requirements have been subdivided by task, as on Exhibit VIII-1. Exhibit VIII-4, following, shows the resulting timetable, assuming that preliminary steps are taken in September 1968, and necessary systems and programming resources are committed in October. For planning purposes, it is estimated that the equivalent of four full-time programmers will be assigned to this effort.

MISSOURI HIGHER EDUCATION
IMPLEMENTATION TIMETABLE

| | 1968 | 广 | j | | | ۔ ا | 1969 | | | | - | | } | 1970 | 9 | | | | | | 1971 | _ | | | 1 |
|------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|---|-----|-----|-----|------|-----|----|---|--------------|-----|---|------|-------|-----|-------------------------------------------------------------------------------------------------------------------|--|---|-------------------------------------------------|-------|---------|------|---|---|
| STEP | | | + | | T | | | | H | | + | | - | | | - | | | | | | H | | | |
| | SEPT OCT MOV | 2 | | WWK | AFR | | | 200 | 20 | È | | *WK | * | | MET A | 2 2 | DEC JAN FEB MAR APR MAT JUNE JULY ANG SEPTI OCT NOV DEC JAN FEB MAR APR MAT JUNE JULY ANG SEPTI OCT I NOV DEC JAN | | 2 | PEB MAR APPR MAY JUNE JULY AUG SEPTIOCT MOV DEC | NOW I | NEX PRO | SEPT | À | 监 |
| 1. Obtain agreement on priority of subsystem conversions after consulting with public and private institutions and State officials | • | | | | | | | | | | | | | | j | | | | | | | | | | ļ |
| 2. Establish framework for coordinating and controlling the detailed design of the information system | • | | | | | | | | | | · | | | | | | | | | | | | | | |
| 3. Determine detailed equipment requirements and arrange to obtain its use | ł | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Make arrangements to secure necessary systems and programming manbower | • | | Ì | | | | | | | | | | | | | | | | | | | | | | 1 |
| 5. Design subsystems in detail; | | _ | | | | | | | | | | | | | | | | | | | | İ | ļ | | 1 |
| Student | | \dagger | ı | | | | | | | | | | | | | | | | | | | | | | |
| Program | | | | | | | | | | | | | | | | | | | | | | | | | |
| Financial | | | | | | | | | | | | | | | | | | | | | | | | | |
| Personnel | | _ | | | | _ | | | | | - | | | | | | | | | | | | | | |
| Facilities | | | | | | | | | | | | | | | | | | | | | | | | ļ | |
| 6. Select colleges for pilot installation | | | | | | • | | | | | | | | | | | | | | | | | | | i |
| 7. Review detailed design with colleges selected for pilot installation | | | | | | | | ı | | | | | | | | | | | | | | | | | |
| 8. Code, test and document required programs: | | | | | | | | | | | | | | | | | | | | | | | | : | ! |
| Student | | | ı | | , | | 1 | | | | | | | | | | | | | | | | | | |
| Program | | | | | | | ı | | | | | | | | | | | | | | | | | | |
| Financial | | | | | | | | | | | $m{\dagger}$ | | • | | | | | | | | | | | | |
| Personnel | | | | | | | | | - | | \dagger | | | | | | | | | | | | | | |
| Facilities | | | | | | | | | | | • | | | | | | | | | | | | | | 1 |
| 9. Convert individual subsystems for pilot installation | | | | | | | ı | | | 1 | | | | | | 1 | | | | | | | | | 1 |
| 10. Evaluate pilot installation and modity detailed design as required | | | | | | | | • | · | • | | | | | | | | | | | | | | | ١ |
| 11. Convert all institutions | | - | | | | | | | | | | | | | | | I | | | | | | | | |
| | | 1 | | | | | | | | | 1 | | | | | ļ | | | | | | | | | |

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